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التيليجرام: شبكة الإمارات التعليمية

UNITED ARAB EMIRATES
MINISTRY OF EDUCATION

2023-2024

https://t.me/Emirates_School

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https://t.me/Nawal_Y
التيليجرام

UAE Edition
Grade 1 • Volume 2
Student Edition



Mc Graw Hill

Reveal MATH®

Student Edition

Grade 1 • Volume 2



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Welcome to *Reveal Math*!

We are excited that you have made us part of your math journey.

Throughout this school year, you will explore new concepts and develop new skills. You will expand your math thinking and problem-solving skills. You will be encouraged to persevere as you solve problems, working both on your own and with your classmates.

With *Reveal Math*, you will experience activities to spark your curiosity and challenge your thinking. In each lesson, you will engage in sense-making activities that will make you a better problem solver. You will have different learning experiences to help you build understanding.

We look forward to revealing to you the wonder and excitement of math.

The *Reveal Math* authors

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The *Reveal Math* Authorship Team

McGraw-Hill teamed up with expert mathematicians to create a program centered around you, the student, to make sure each and every one of you can find joy and understanding in the math classroom.

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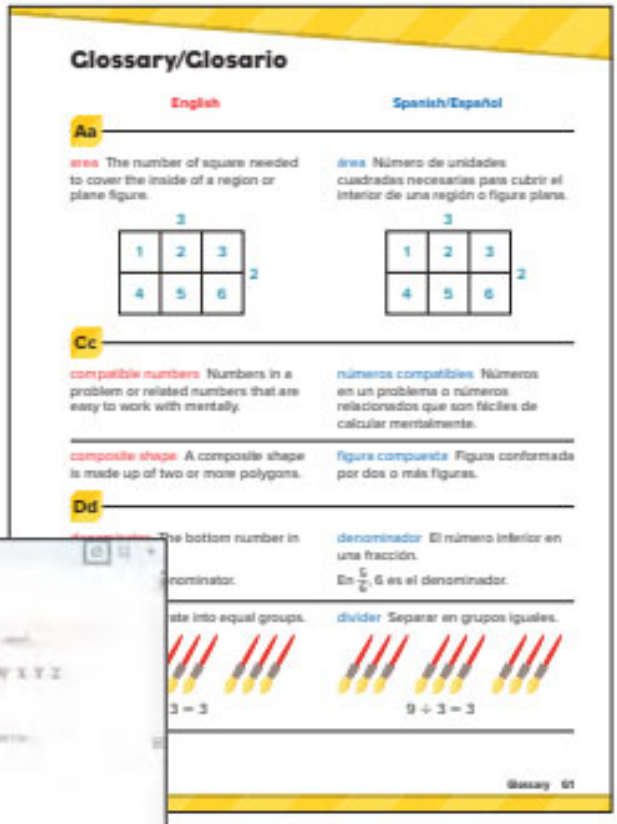
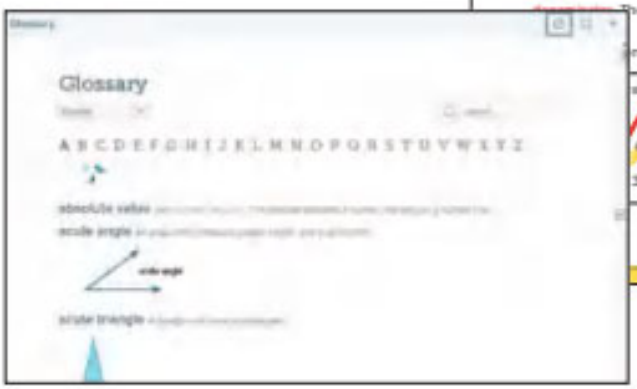
Let's Talk About Math!

This year, you will explore the language of mathematics together as you talk about math with your classmates. You are going to learn many new words. Use these resources as you expand your vocabulary.

Glossary

In the back of this book, you will find a glossary with definitions.





Interactive Glossary

The Interactive Glossary will support you as you work in your Interactive Student Edition.

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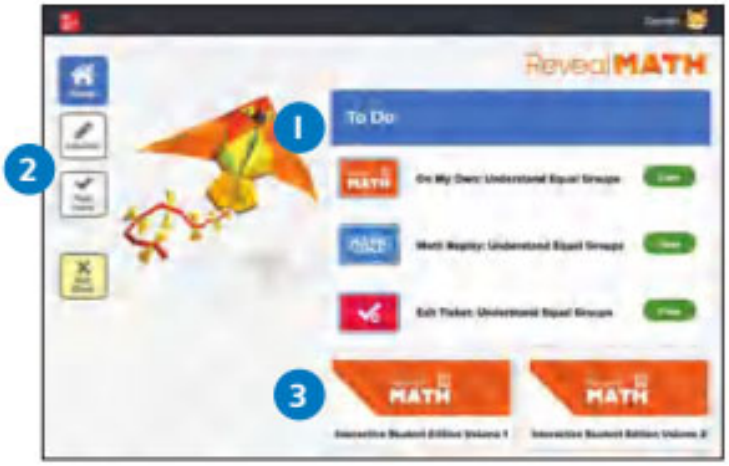
Jump into Learning!

You can find all the resources you need from your **Student Dashboard**.



1. See your work in the To-Do List.
2. See the work you already completed.
3. Go to your Interactive Student Edition.

You can use your **Interactive Student Edition** for all your math work.

1. Use the slide numbers to find your page number.
2. Type or draw to work out problems.
3. Check your answers as you go.



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Access Lesson Supports Online!

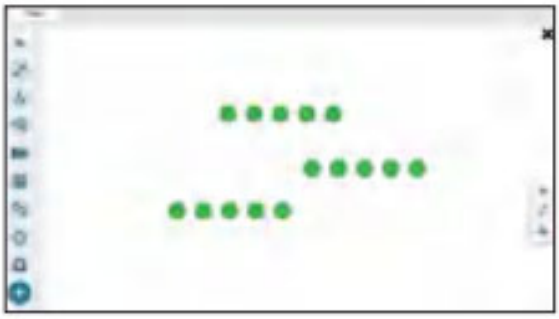
You can also use these to support while you practice.

MATH REPLAY | GO ONLINE

Need an Instant Replay of the Lesson Content?

Each lesson has a **Math Replay** video that provides a 1–2 minute overview of the lesson concept.





Virtual Tools to Help You Problem-Solve

You can access the eToolkit at any time from your Student Dashboard. You can access these tools:

- Counters
- Base-Ten Blocks
- Array Builder
- Fraction Model
- Bucket Balance
- Geometry Sketch
- Money
- Fact Triangles
- Number Line
- and more!

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Key Concepts and Learning Objectives

Key Concept **Habits of Mind and Classroom Norms for Productive Math Learning**

- I make sense of problems and think about numbers and quantities. (Unit 1)
- I share my thinking with my classmates. (Unit 1)
- I can use math to make sense of everyday problems. (Unit 1)
- I see patterns in math. (Unit 1)
- I describe my math story. (Unit 1)
- I work productively with my classmates. (Unit 1)

Key Concept **Addition and Subtraction**

- I relate counting to addition. (Unit 4)
- I relate counting to and counting back to subtraction. (Unit 5)
- I use different strategies to add and subtract within 100. (Units 4, 5, 9, 11)
- I use addition to solve problems involving adding to and putting together. (Unit 7, 8, 10)
- I explain what the equal sign means. (Unit 4)

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Key Concept Number Sense and Place Value

- I read and write numbers from 0 to 120. (Unit 2)
- I use place value to represent 2-digit numbers. (Unit 3)
- I explain that 10 ones equal 1 ten. (Unit 3)
- I compare two 2-digit numbers by comparing the number of tens and the number of ones. (Unit 3)

Key Concept Measurement and Data

- I order three objects from shortest to longest. (Unit 12)
- I compare the lengths of two objects. (Unit 12)
- I measure the length of objects. (Unit 12)
- I tell time to the nearest hour and half hour. (Unit 12)
- I organize and interpret data into three categories. (Unit 12)

Key Concept Attributes of Shapes

- I can describe attributes that define shapes. Some defining attributes are the number of sides and the number of angles. (Unit 6)
- I can describe attributes that do not define shapes. Some non-defining attributes are color, size, and orientation. (Unit 6)
- I can compose two-dimensional and three-dimensional shapes to create composite shapes. (Unit 6)
- I can partition circles and rectangles into 2 and 4 equal parts. (Unit 13)
- I can describe the 2 and 4 equal parts of a circle or rectangle. (Unit 13)

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Math is...

How would you complete this sentence?

Math is.....

Math is not just adding and subtracting.

Math is...

- working together
- finding patterns
- sharing ideas
- listening thoughtfully to our classmates
- sticking with a task even when it is a little challenging

In *Reveal Math*, you will develop the habits of mind that strong doers of math have. You will see that math is all around us.



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Let's be Doers of Mathematics

Remember, math is more than getting the right answer. It is a tool for understanding the world around you. It is a language to communicate and collaborate. Be mindful of these prompts throughout the year to access the power of math.

1. **Math is... Mine**
   - Mindset
2. **Math is... Exploring and Thinking**
   - Planning
   - Connections
   - Thinking
3. **Math is... My World**
   - In My World
   - Modeling
   - Choosing Tools
4. **Math is... Explaining and Sharing**
   - Explaining
   - Sharing
   - Precision
5. **Math is... Finding Patterns**
   - Patterns
   - Generalizations
6. **Math is... Ours**
   - Mindset



Math is... Mindset

What can you do to be an active listener?

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Explore the Exciting World of STEM!

Ever wonder how math applies in the real world? In every unit, you will learn about a STEM career, from protecting our parks to exploring outer space. You will learn about the STEM career through digital simulations and projects.



STEM Career Kid: Meet Sienna

Let the STEM Career Kid introduce their career and talk about the different responsibilities.



Math In Action: Nutritionist

Watch the Math in Action to see how the math you are learning applies to the real world.

Hi, I'm Sienna.
I want to be a nutritionist to help people eat to feel great!



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Unit 7

Meanings of Addition

Focus Question

How can I solve addition problems?



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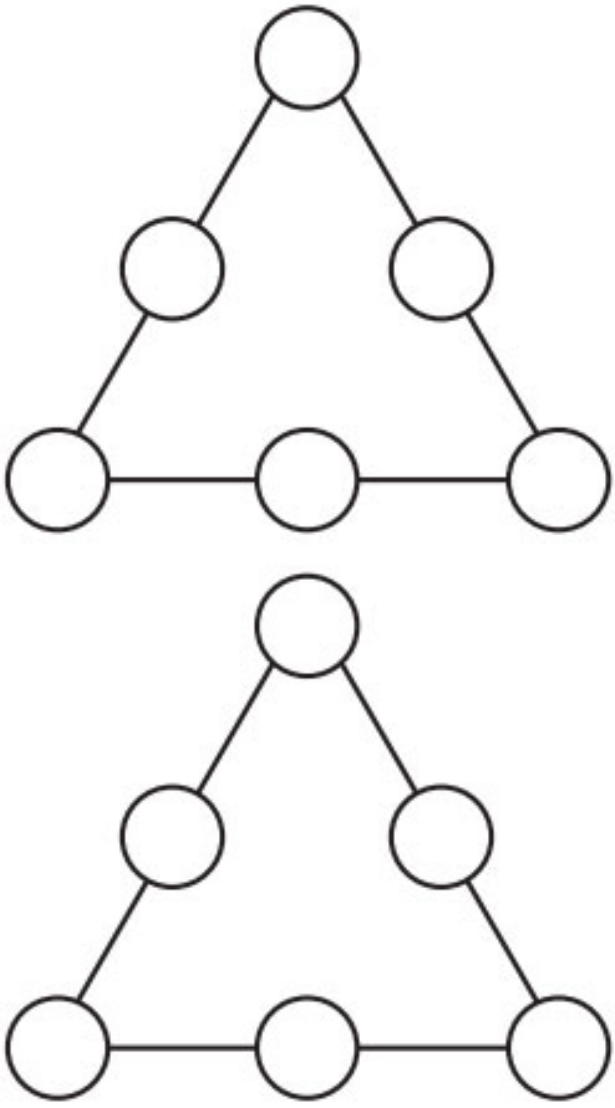
IGNITE!

Name _____

Perfect Triangle

Use each number 1–6 exactly once so that the sum of the numbers along each side of the triangle is the same.



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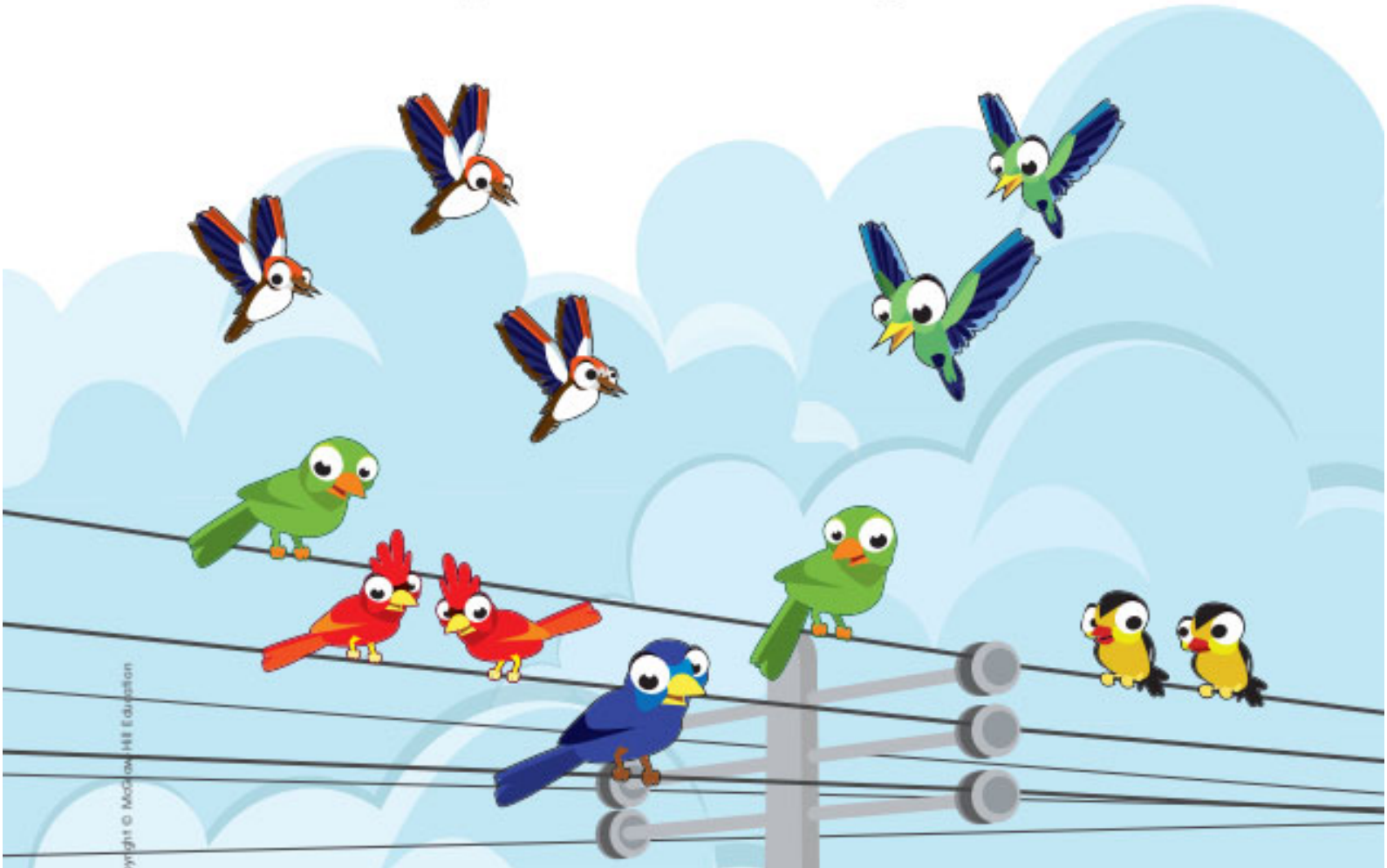
Lesson 7-1

Represent and Solve Add To Problems

Be Curious

What question could you ask?



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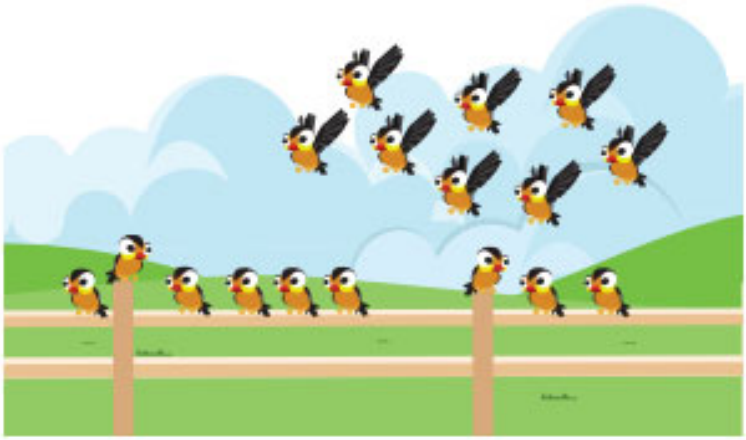
Math is... Mindset

What helps you be ready to learn?

Learn

9 birds are on a fence.
8 more birds land on the fence.

How many birds are on the fence?



You can use cubes to show the birds.

9 cubes



8 more cubes



An **equation** shows the problem.

$9 + 8 = ?$

Add the cubes.



$9 + 8 = 17$

17 birds are on the fence.

Math is... Modeling

How do cubes show the birds?

You can add to find how many in all.

Work Together

5 raindrops fall. 6 more raindrops fall.
How many raindrops fall?
Show your thinking.

$5 + 6 = 11$

11 raindrops

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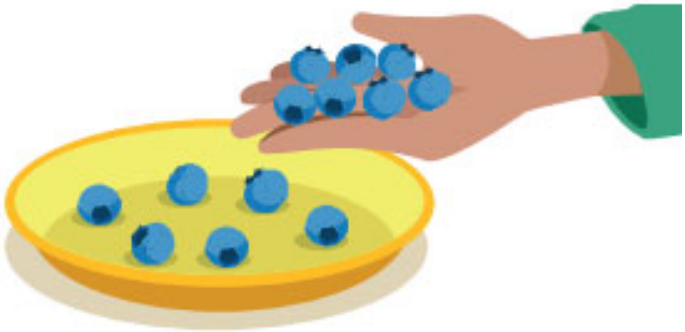
On My Own

Name _____ + اضافة (more) كلمة

1. Peter has 6 berries. He gets 7 more berries. How many berries does he have? Which equation matches the word problem? Circle the equation.



$7 - 6 = ?$ $6 + 7 = ?$

What equation can show the problem? Use ? for the unknown. Then solve.

2. There are 9 cars. 3 more cars drive up. How many cars are there? 9+3
Equation:

12 cars

3. Nisha has 7 stickers. She gets 4 more stickers. How many stickers does Nisha have?
Equation: 7+4 = 11

11 stickers

4. There are 3 birds in a tree. 14 more birds land in the tree. How many birds are in the tree?
Equation: 3+14 = 17

17 birds

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5. **STEM Connection** Chloe has 9 nails. She gets 6 more nails. How many nails does Chloe have now? 9+6
Draw to show your thinking.



15 nails

6. **Extend Your Thinking** Make up a word problem. Make the total unknown. Then solve.

Sara has 3 apples. she gets 3 more apples. How many apples does Sara have now?

3+3=6

Reflect

How do you know you need to add to solve a word problem?

You need to add when the problem involves combining quantites of finding a total.

Math is... Mindset

How did you get ready to learn today?

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Lesson 7-2

Represent and Solve More Add To Problems

Be Curious

Jay has some oranges.

How many more oranges does he need to have more oranges?

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Math is... Mindset

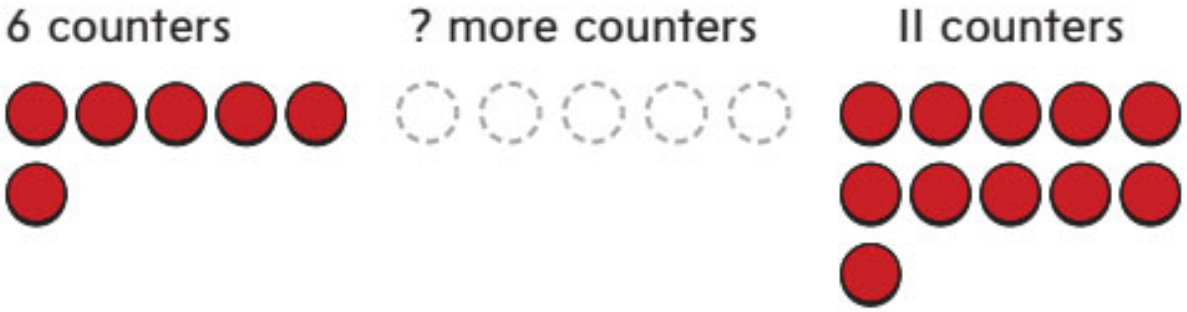
How can you help identify a problem in your class or community?

Learn



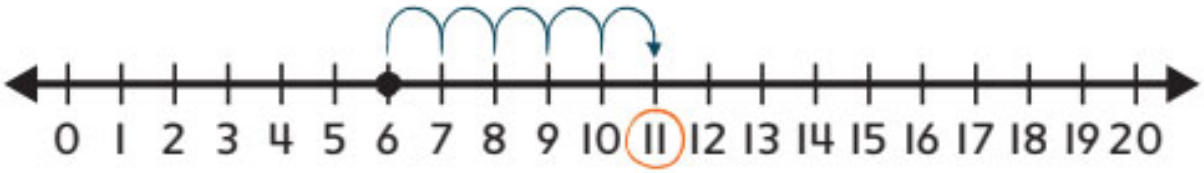
Jay has 6 oranges. He gets some more oranges. Now he has 11 oranges.

How many oranges does he get?



$6 + ? = 11$

Count on to find the missing addend.



$6 + 5 = 11$

Jay gets 5 oranges.

Math is... Choosing Tools

What other tool can you use to find the sum?

Work Together

Kathy has 7 peaches. She buys more peaches. Now she has 16 peaches. How many peaches did Kathy buy?

$7 + ? = 16$

Show your thinking.

$7 + 9 = 16$

9 peaches

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On My Own

MATH REPLAY | GO ONLINE

Name _____

1. Carlos has 7 shells. He finds more shells. Now he has 12 shells. How many shells did Carlos find? Make an equation to show the problem. Use ? for the unknown.

Equation: 7 + ? = 12

7 + 4 = 12

4 shells

How can you make an equation to show the problem? Use ? for the unknown. Then solve.

2. Kyle has some coins. He gets 6 more coins. Now he has 13 coins. How many coins did he have to start?



Equation: ? + 6 = 13

7 + 6 = 13

13 coins

3. Gus has some cards. He buys 8 cards. Now he has 15 cards. How many cards did Gus have to start?

Equation: ? + 8 = 15

7 + 8 = 15

7 cards

4. Emma has 5 apples. How many more apples does Emma need to have 17 apples?

Equation: 5 + ? = 17

5 + 12 = 17

12 apples

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5. **Error Analysis** 8 markers are in the bin. More markers go in the bin. Now 12 markers are in the bin. How many more markers went into the bin?

Monica writes 8 + 12 = ? to show the problem. Do you agree? Explain.

I Don't agree, because total is 12.
Then 8 + ? = 12 → 8 + 4 = 12
4 markers.

6. **Extend Your Thinking** What word problem can you make to match the picture? Make one addend the unknown.



Reflect

How can you show a word problem when one addend is unknown? A word problem with an unknown addend can be shown by representing the unknown addend with a variable (like x or a blank) and setting up an equation.

Math is... Mindset

How did you help identify a problem in your class or community?

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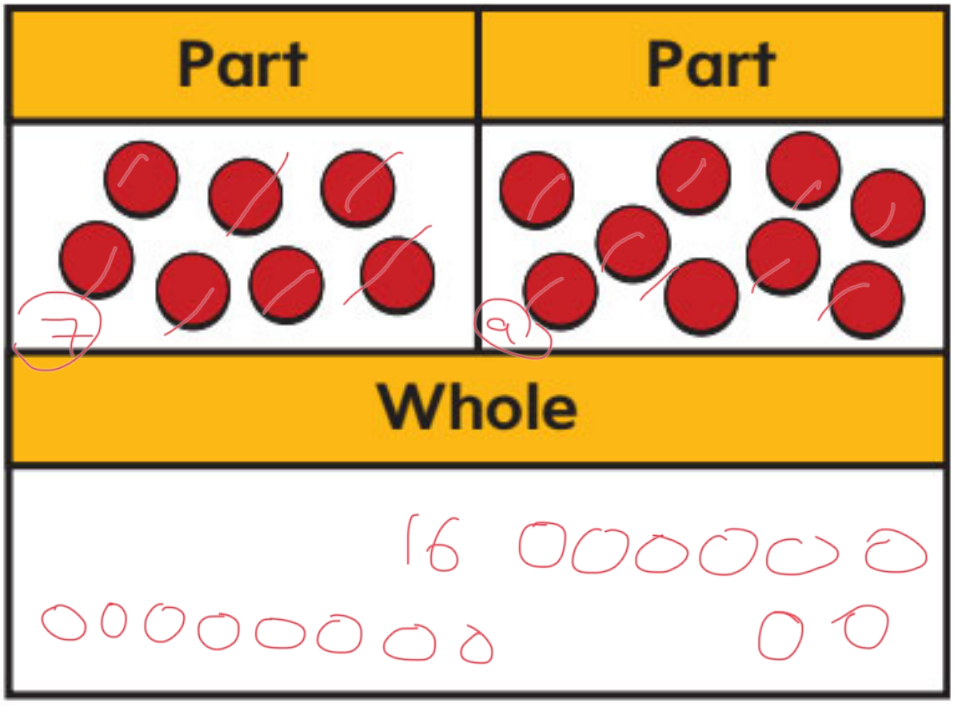
Represent and Solve Put Together Problems

Be Curious

What do you see?



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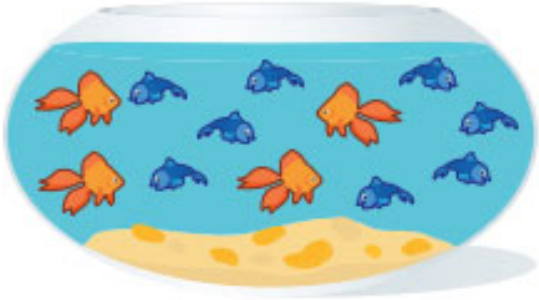
Math is... Mindset

What are your strengths in math?

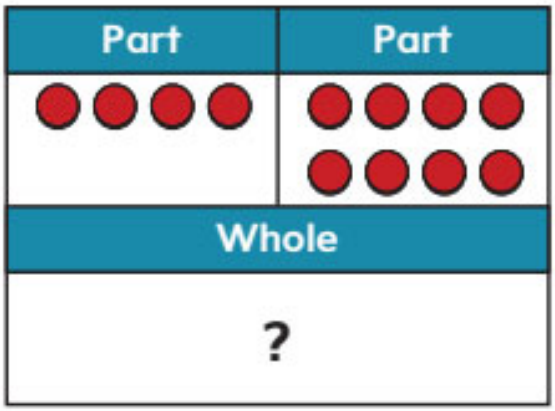
Learn



A tank holds 4 large fish and 8 small fish.

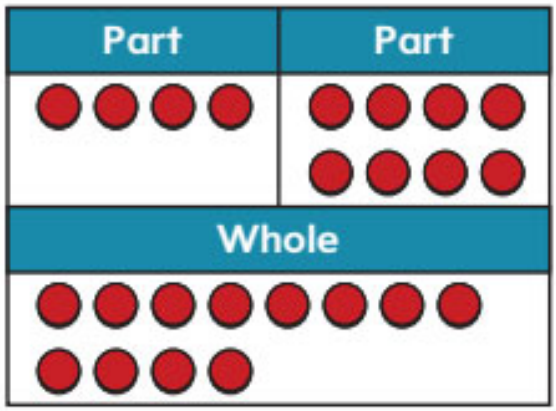
How many fish are in the tank?

The **parts** are 4 and 8.
The **whole** is unknown.
4 + 8 = ?



Add the parts.

4 + 8 = 12



12 fish are in the tank.

A part-part-whole mat can show addition problems.

Math is... Structure

How can you add the parts?

Work Together

7 chicks and 5 ducklings are in a pen.
How many baby birds are in the pen? 7+5

Show your thinking.

12 birds

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On My Own

MATH REPLAY | GO ONLINE

Name _____

1. Ana has 6 tomato plants and 9 cucumber plants.
How many plants does Ana have?
Which equation matches the word problem?
Circle the equation.

$6 + 9 = ?$ $6 + ? = 9$

What equation shows the problem? Use ? for the unknown. Then solve.

2. There are 8 small paintbrushes and 3 large paintbrushes.
How many paintbrushes?
Equation: 8+3 = 11



11 paintbrushes

3. Franco has 8 apples. Zoe has 6 apples.
How many apples do they have?
Equation: 8+6 = 14

14 apples

4. There are 5 red cars and 7 white cars. 5+7
How many cars in all?
Equation:

12 cars

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5. **Error Analysis** Juan and Lucia solve this problem.

> A jar has 9 blue marbles and 6 red marbles.
> How many marbles are in the jar?

Juan writes $6 + 9 = 15$. Lucia writes $9 + 6 = 15$.
Can they both be correct? Explain. yes
Addition is commutative

6. **Extend Your Thinking** Make a word problem to match the part-part-whole mat.

Part	Part
7	7
Whole	
?	

Sarah has 7 cats and 7 dogs. How many animals does Sarah have?

Reflect

How can a part-part-whole mat help you add?

Is a visual tool that helps break down addition problems into smaller, more manageable part

Math is... Mindset

How did you use your strengths in math today?

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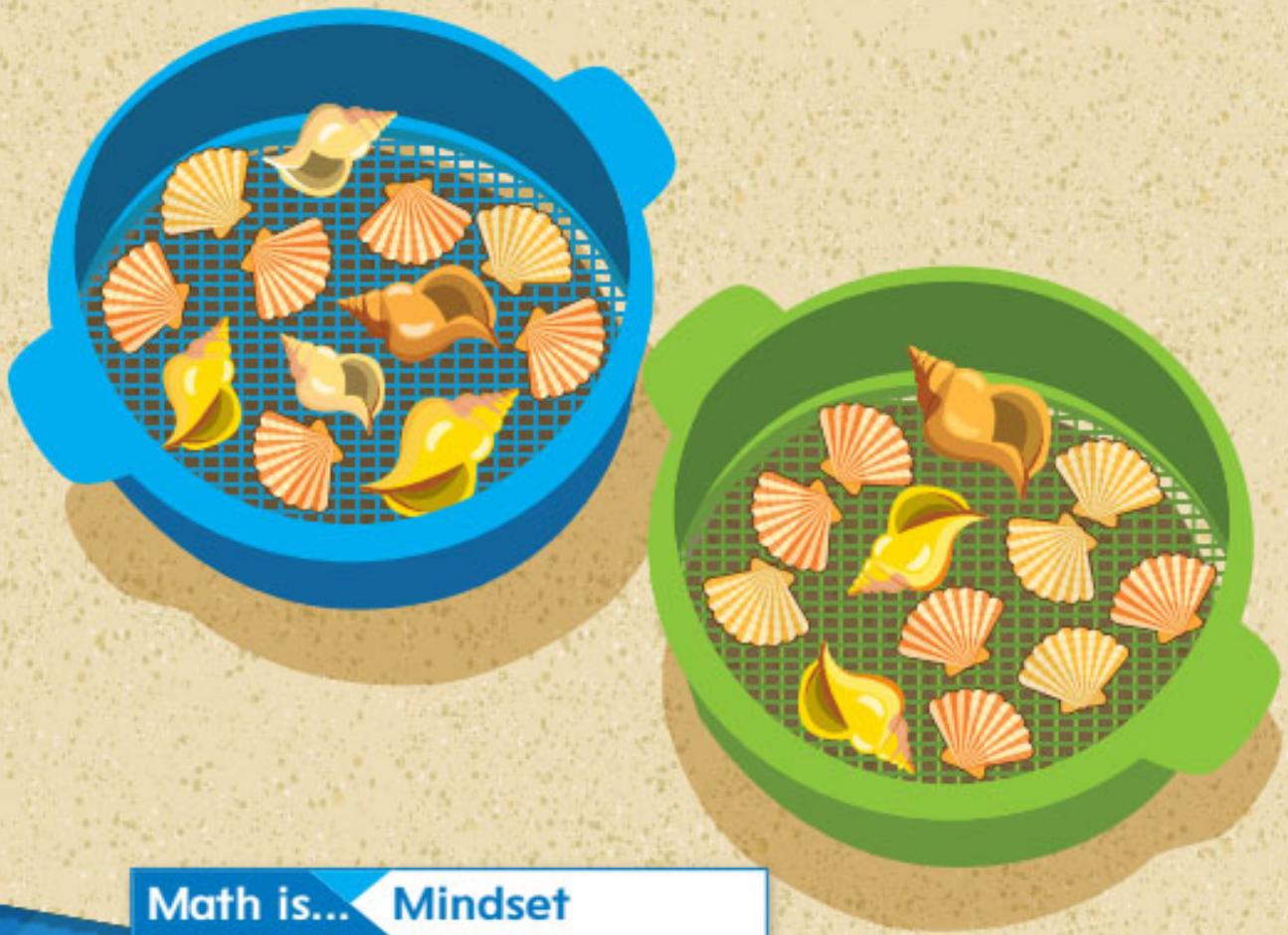
Lesson 7-4

Represent and Solve More Put Together Problems

Be Curious

How are they the same?
How are they different?



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Math is... Mindset

What helps you understand a problem situation?

Learn

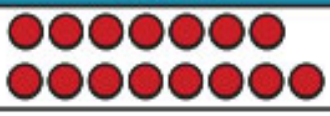


15 animals are on the beach.
Some are turtles and some are crabs.

How many turtles and how many crabs?

One Way

15 = ? + ?

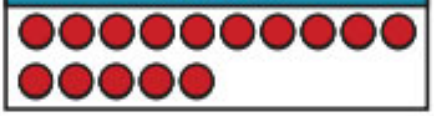
Part	Part
?	?
Whole	
	

15 = 7 + 8

There are 7 turtles and 8 crabs.

Another Way

15 = ? + ?

Part	Part
?	?
Whole	
	

15 = 10 + 5

There are 10 turtles and 5 crabs.

Math is... Quantities

What other equations match the problem?

Work Together

Jia has 19 coins. Some are pennies. The rest are dimes.
How many are pennies and dimes?

10 pennies

9 dimes

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On My Own

Name ممكن كتابه اي رقمين مجموعها الرقم اللي معطيه

What equation shows the problem? Use ? for the unknowns. Then solve.

1. A farm has 11 animals. Some are chickens and some are sheep. How many chickens and how many sheep? 5 + 6 = 11
   Equation:

   5 chickens 6 sheep

2. There are 6 blue kites and some purple kites. There are 14 kites in all. How many purple kites?
   Equation: 14 − 6 =

   8 purple kites

3. There are 16 backpacks. Some are red. The rest are green. How many red backpacks and how many green backpacks?
   Equation: 5 + 11 = 16

   5 red backpacks 11 green backpacks

4. Gina does 15 exercises. She does some push-ups and 8 sit-ups. How many push-ups does Gina do?
   Equation: 8 + ? = 15

   7 push-ups

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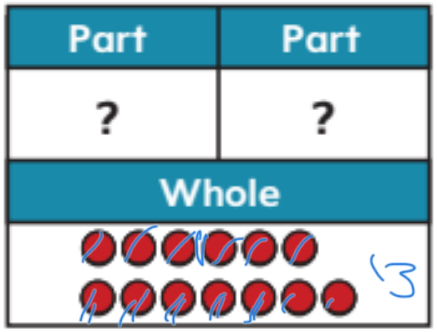
5. Joy has 16 toys. 7 are dolls. The rest are trains.
How many are trains?

7 + ? = 16

Draw to show your thinking.

9 trains

6. **Extend Your Thinking** Make an equation to match the part-part-whole mat. Use ? for the unknowns. Solve two different ways.



3 + 10 = 13
9 + 4 = 13
7 + 6 = 13

Reflect

What pattern do you notice when you find two unknown addends when you know the total?

? + ? = total

Math is... Mindset

What helped you understand a problem situation?

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Unit 7

Problems and Equations 1

CHERYL TOBEY MATH PROBES

Name _____

1. There are apples and oranges in a bowl. There are 6 apples and 8 oranges. How many pieces of fruit are in the bowl?

Circle the equation that shows the problem.

$6 + \underline{2} = 8$

$6 + 8 = \underline{14}$

$8 - 6 = \underline{2}$

Tell or show why.

How many it mean (+)

They want the total.

2. Lucas has 7 markers. His friend gave him some more markers. Now Lucas has 12 markers. How many markers did his friend give Lucas?

Circle the equation that shows the problem.

$7 + \underline{5} = 12$

$7 + 12 = \underline{19}$

$12 - 7 = \underline{5}$

Tell or show why.

They give the total

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3. There are 9 children and 6 adults swimming in a pool. How many people are swimming in the pool?

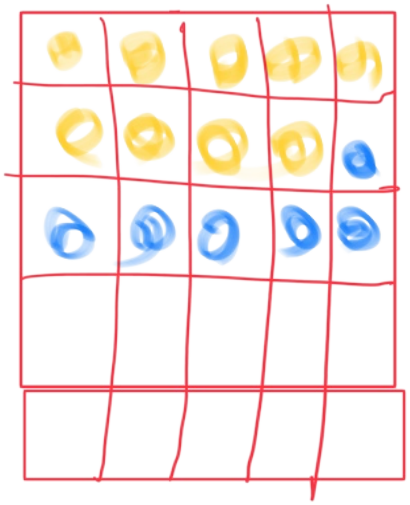
Circle the equation that shows the problem.

$9 + \_\_\_\_ = 6$

$9 + 6 = 15$

$9 - 6 = \_\_\_\_$

Tell or show why.



Reflect On Your Learning





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Lesson 7-5

Represent and Solve Addition Problems with Three Addends

Be Curious

Some bees are on a flower.

Some bees are on another flower.

Some bees are on another flower.

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Math is... Mindset

How can you understand thinking that is different from yours?

Learn

4 bees are on a flower.
2 bees are on another flower.
5 bees are on another flower.

How many bees are there?



First, add two addends.

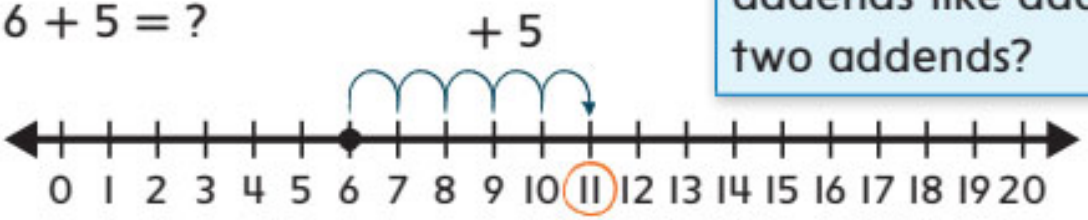
$4 + 2 = ?$



$4 + 2 = 6$

Then add the other addend.

$6 + 5 = ?$



$6 + 5 = 11$

Math is... Explaining

How is adding three addends like adding two addends?

Some problems have three addends. You add two addends at a time.

Work Together

6 pens are on a desk. 3 pens are in a case.
4 pens are on the floor. How many pens are there?
Show your thinking.

$6+3=9$
$9+4=13$

13 pens

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On My Own

MATH REPLAY | GO ONLINE

Name _____

What two equations show the problem? Use ? for the unknown. Then solve.

1. Cora as 5 cubes. Lin has 4 cubes.
Brianne has 3 cubes. How many cubes altogether?



Equation: 5+4=9 ____ cubes

Equation: 9+3 = 12 ____ cubes

2. Kenny has 4 marbles. He finds 5 marbles.
He buys 9 marbles. How many marbles does Kenny have?

Equation: 4+5=9 ____ marbles

Equation: 9+9=18 ____ marbles

3. There are 6 birds in a tree. 3 birds are on a fence.
7 birds are in the sky. How many birds?

Equation: 6+3 = 9 ____ birds

Equation: 9+7 = 16 ____ birds

4. Ami sees 4 cats. She sees 2 dogs.
She sees 7 fish. How many pets does Ami see?

Equation: 4+2 = 6 ____ pets

Equation: 6+7 = 13 ____ pets

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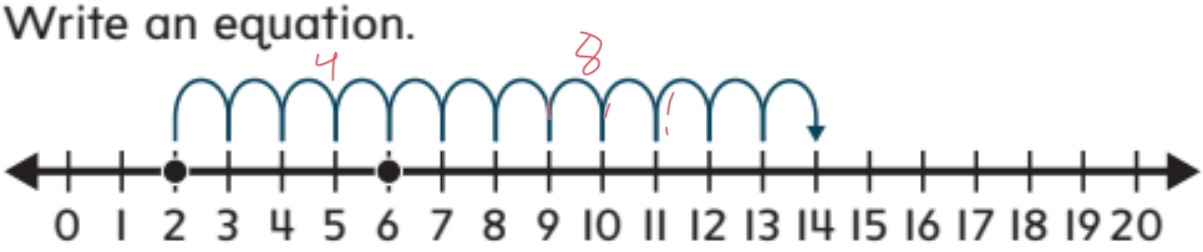
5. What equation matches the number line? Write an equation.



$2 + 4 = 6$

$6 + 8 = 14$

6. **Extend Your Thinking** What word problem can you make to match the cubes? Write the problem. Then solve.



A farmer has 4 cows and 6 hen, here brother give hem 4 hours. How many animals a farmer have now?

Reflect

How can you add three addends?

You can add the first two numbers together, and then add the third number to the result

Math is... Mindset

How did understanding thinking that is different from yours help you learn?

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Lesson 7-6

Solve Addition Problems

Be Curious

Some tigers are in the forest.

Some tigers enter the forest.

Now there are more tigers.

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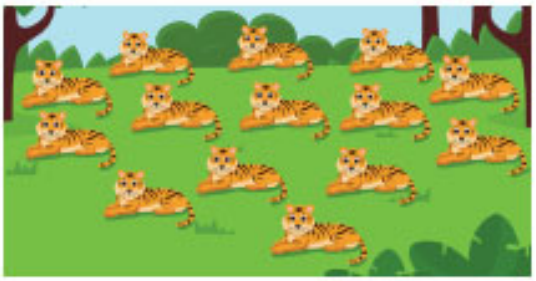
Math is... Mindset

What are some ways to resolve disagreements with your classmates?

Learn



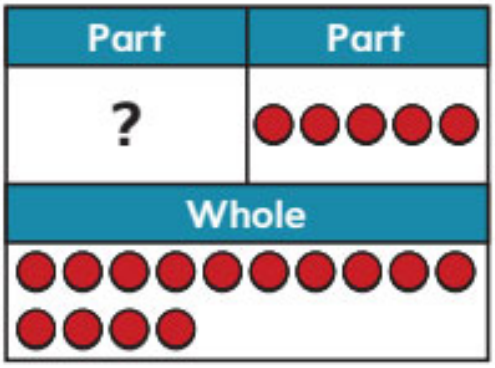
Some tigers are in the forest.
5 tigers enter the forest.
Now there are 14 tigers.

How many tigers were in the forest before?

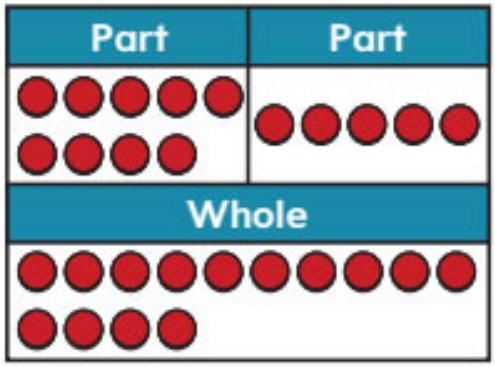
An addition equation shows the problem.

Find the missing addend.

$? + 5 = 14$



$9 + 5 = 14$



9 tigers were in the forest.

Math is... Choosing Tools

What other tool can you use to find the unknown?

You can find different unknowns.

Work Together

There are 13 animals. 7 are rabbits and the rest are birds. How many birds? Show your thinking.

6 birds $13 - 7 = 6$

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On My Own

Name _____

How can you make an equation to show the problem? Use ? for the unknown. Then solve.

1. A box has 14 blocks.
7 blocks are large.
The rest are small.
How many small blocks?
Equation: 14 − 7 = 7



7 small blocks

2. There are 11 boats in the water. 5 more boats go in the water. How many boats? 11 + 5 = 16
Equation:

16 boats

3. Leo has some books. He gets 7 more books. Now he has 15 books. How many books did Leo have to start?
Equation: 7 + ? = 15
15 − 7 = 8

8 books

4. There are 12 blue pencils. There are 5 red pencils. There is 1 green pencil. How many pencils?
Equation: 12 + 5 + 1

18 pencils

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5. **STEM Connection** Jordan visits a school for guide dogs. There are 14 dogs. More dogs join. Now there are 20 dogs. How many more dogs join?



6 guide dogs 14 + 6 = 20

6. Lola has 12 balloons. Some are big and some are small. How many big balloons and how many small balloons?

Make three different equations to match the problem.

4 small + 8 big = 12
6 small + 6 big = 12
10 small + 2 big = 12

7. **Extend Your Thinking** Make an addition word problem. Then solve.

Reflect

How do you think like a mathematician to solve addition word problems?

An addition equation shows the problem. Find the missing addend

Math is... Mindset

How have you resolved disagreements with your classmates?

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Unit Review

Name _____

Vocabulary Review

Circle the example or examples of the term.

1. part

   $6 + 7 = 13$ $\quad$ $17 = 9 + 8$

2. sum

   $5 - 2 = 3$ $\quad$ $7 + 4 = 11$

3. unknown

   $9 + ? = 12$ $\quad$ $8 + 5 = 13$

4. whole

   $5 + 9 = 14$ $\quad$ $16 = 8 + 8$

5. equation

   $7 + 2 = 9$ $\quad$ $12 = 5 + 7$

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Review

6. Owen has 8 toy cars. He gets some more toy cars. Now he has 12 toy cars. How many toy cars does Owen get?
Which equation shows the problem?

A. $8 + 12 = ?$

B. $8 + ? = 12$

C. $12 + 8 = ?$

7. Which equation matches the problem? Draw lines.

Jeff chops some carrots. Lila chops 6 carrots. Together they chop 11 carrots. How many carrots does Jeff chop?

Levi peels 5 potatoes. Iris peels 8 potatoes. How many potatoes do Levi and Iris peel?

14 pieces of fruit are in a basket. Some are apples and some are oranges. How many apples and how many oranges?

$5 + 8 = ?$

$? + ? = 14$

$? + 6 = 11$

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8. Some mugs are on a shelf. Joan puts 7 more mugs on the shelf. Now there are 16 mugs on the shelf. How many mugs were on the shelf to start?

9 mugs 7+? = 16

9. Michaela has 12 daisies. She gets 6 tulips. How many flowers does she have?

18 flowers 12+6=18

10. There are 5 chickens in the coop. 9 chickens are in the yard. 2 chickens are on the fence. How many chickens? 5+9=14

____ chickens 14+2=16

11. There are 14 swimmers. 9 are boys and the rest are girls. How many swimmers are girls?

5 girls 9+?=14

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Performance Task

A carpenter makes 13 objects to sell.
Some are birdhouses. Some are shelves.

Part A: The carpenter makes 7 birdhouses and some shelves. How many shelves does the carpenter make? Show your thinking. 13 − 7 =

6 shelves

Part B: What other numbers of birdhouses and shelves could the carpenter make? The sum is still 13. Make two equations to show these combinations.

5 birdhouses + 8 shelves = 13 objects

3 birdhouses + 10 shelves = 13 objects.

Reflect

How can you solve different addition word problems?

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Unit 7

Fluency Practice

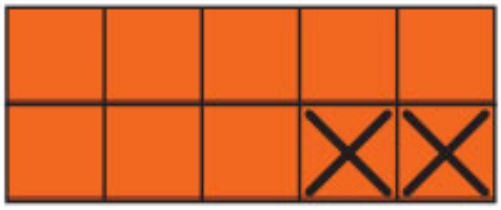
Name _____

Fluency Strategy

You can use a ten-frame to help subtract from 10.

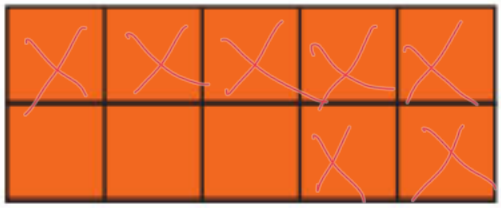


$10 - 6 = 4$



$10 - 2 = 8$

1. How can you use the ten-frame to subtract $10 - 7$? Show your work.



$10 - 7 =$ 3

Fluency Flash

What is the difference? Use the ten-frame to help.

2.



$10 - 9 =$ 1

3.



$10 - 5 =$ 5

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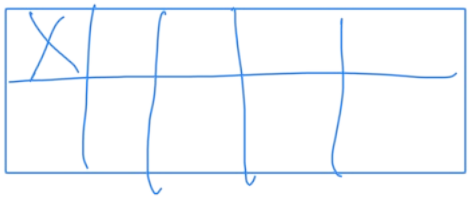
Fluency Check

What is the sum or difference? Write the number.

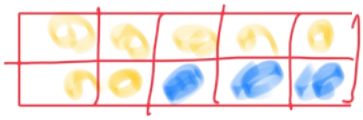
4. $6 + 4 =$ 10
5. $8 - 7 =$ 1
6. $10 - 3 =$ 7
7. $10 - 4 =$ 6
8. $9 - 3 =$ 6
9. $10 - 8 =$ 2
10. $3 + 7 =$ 10
11. $7 - 5 =$ 2
12. $9 + 1 =$ 10
13. $2 + 8 =$ 10

Fluency Talk

How can you show that $10 - 1 = 9$?
Explain your work.



How can you use a ten-frame to add $3 + 7$? 10
Explain your thinking.



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Meanings of Subtraction

Focus Question

How can I solve subtraction problems?



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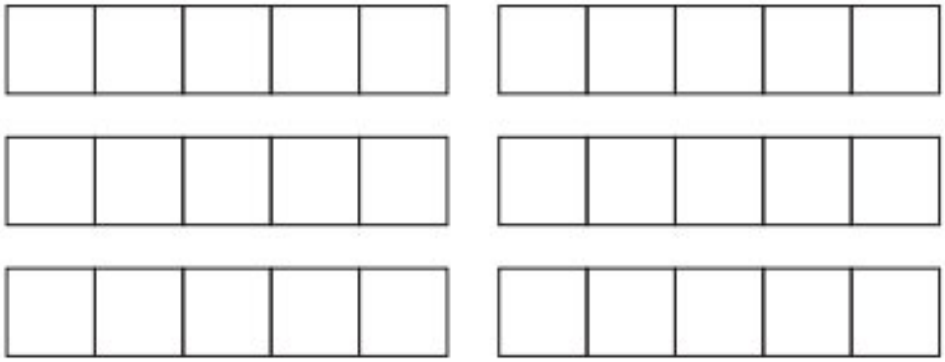
IGNITE!

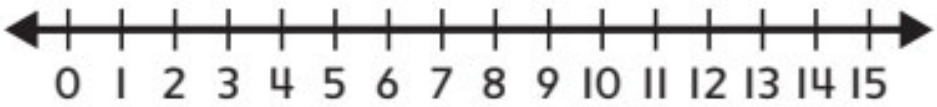
Name _____

Make Fifteen

Use Number Cards 0–9. Stack the number cards face up. Take turns choosing cards. Keep them face up. To win, make a sum of 15 with 3 cards.

You can use unit cubes with these five-frames or the number line to help you.





0	1	2	3	4
5	6	7	8	9

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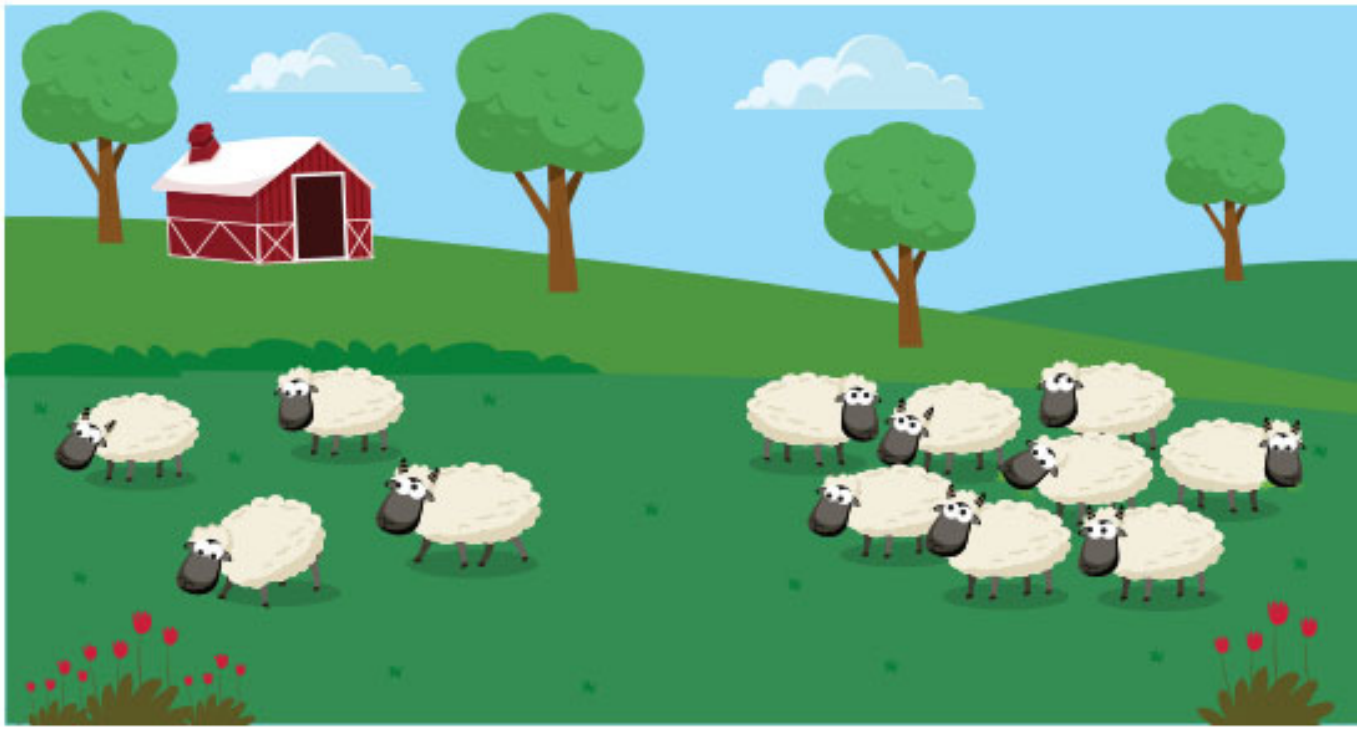
Lesson 8-1

Represent and Solve Take From Problems

Be Curious

What question could you ask?



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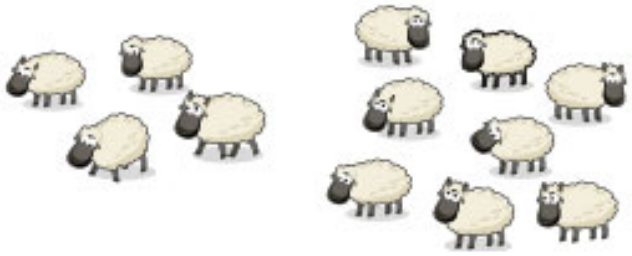
Math is... Mindset

What helps you want to do your best work?

Learn

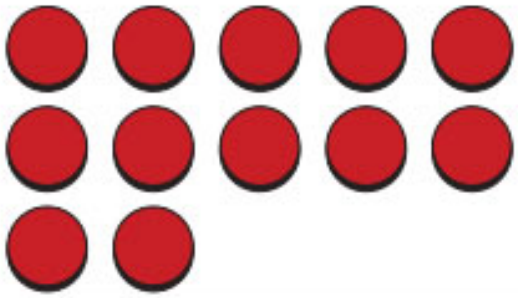
Juanita has 12 sheep.
She gives 4 sheep away.



How many sheep does Juanita have now?

You can use counters to show the sheep.

12 counters

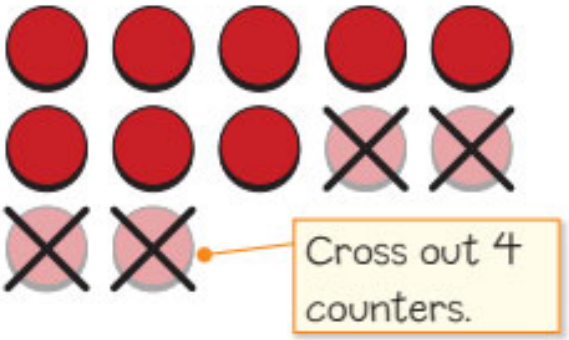


Math is... Choosing Tools

What is another tool you can use?

An equation shows the problem.

$12 - 4 = ?$



$12 - 4 = 8$

Juanita has 8 sheep.

When you subtract, you take away.

Work Together

There are 15 balloons. 8 balloons pop. $15 - 8 = 7$
How many balloons are left?

Show your thinking.

7 balloons

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On My Own

MATH REPLAY | GO ONLINE

Name _____

1. There are 9 cats. 5 cats leave. 5 + ? = 9
How many cats are there now?
Which equation matches the word problem?
Circle the equation.



9 + 5 = ? 9 − 5 = ?

Write an equation to show the problem. Use ? for the unknown. Then solve.

2. Lee has 14 puzzles. He gives away 7 puzzles.
How many puzzles does Lee have now?
Equation: 7 + ? = 14
7 puzzles

3. There are 15 horses in a stable. 6 horses go outside.
How many horses stay? 6 + ? = 15
Equation: 6 + ? = 15
9 horses

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4. **Error Analysis** 11 oranges are in the basket. 7 oranges get eaten. How many oranges are left?



Leah makes the equation $? - 7 = 11$ to show the problem. Do you agree? Explain.

Yes, because the total 11

5. **Extend Your Thinking** Make up a word problem where the difference is the unknown. Draw to solve the problem.

Sarah has 12 apples and John has 5 apples.

How many more apples does Sarah have then John? 12-5=7

Reflect

How do you know when to subtract to solve a problem? Subtraction is used when a problem involves reducing a quantity, finding a difference or determing what remains after removal of a part.

Math is... Mindset

What helped you want to do your best work?

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Lesson 8-2

Represent and Solve More Take From Problems

Be Curious

Some apples are on a tree.
A horse eats some apples.
Some apples are left on the tree.

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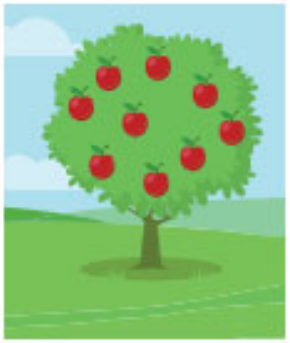
Math is... Mindset

What helps you understand how others are feeling?

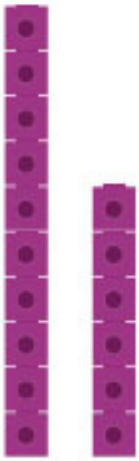
Learn

16 apples are on a tree. A horse eats some apples. 9 apples are left on the tree.



How many apples did the horse eat?

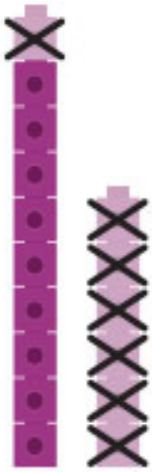
The cubes can show the apples.



16 cubes

An equation shows the problem.

$16 - ? = 9$



Math is... Explaining

How do you know to subtract?

Cross out cubes until 9 are left.

$16 - 7 = 9$

The horse eats 7 apples.

Sometimes when you subtract, you find how many are taken away.

Work Together

14 ducks are in a pond. Some fly away. Now 11 ducks are in the pond. How many ducks fly away?

Show your thinking. $14 - 11 = 3$

3 ducks

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Write an equation to show the problem. Use ? for the unknown. Then solve.

1. A clown has 12 balloons.
Some balloons pop.
Now there are 8 balloons.
How many balloons popped?



Equation: 8 + ? = 12

4 balloons

2. Some students are on the bus. 8 students get off the bus. Now 9 students are on the bus. How many students were on the bus to start?

Equation: 9 + 8 = 17

17 students

3. Some grapes are in a bowl. Kevin eats 6 grapes. Now there are 10 grapes in the bowl. How many grapes were in the bowl at the start?

Equation: ? − 6 = 10

16 grapes

or

10 + 6 = 16

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4. **STEM Connection** Ruby sees 15 dogs in the kennel. Then some dogs go home. Now 7 dogs are in the kennel. How many dogs went home?



8 dogs $15 - 7 = 8$

5. **Extend Your Thinking** Make a word problem with an unknown change number. Then solve.

Reflect

How do you know where to put the unknown in a subtraction equation?

The placement of the unknown depends on which part of the subtrahend (minuend subtrahend, or difference) is unknown, as described in the problem.

Math is... Mindset

What has helped you understand how others are feeling?

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Lesson 8-3

Represent and Solve Take Apart Problems

Be Curious

What do you notice?
What do you wonder?



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Math is... Mindset

How well do you think you will do with today's tasks?

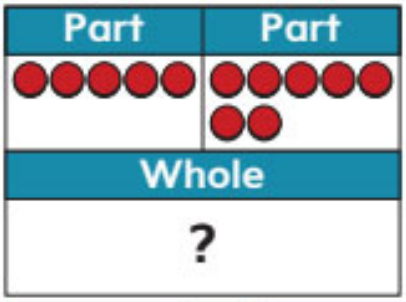
Learn

Henry has some shirts in a basket.
He takes out 5 shirts. 7 shirts remain.



How many shirts did Henry have in the basket?

The parts are 5 and 7.
The whole is unknown.

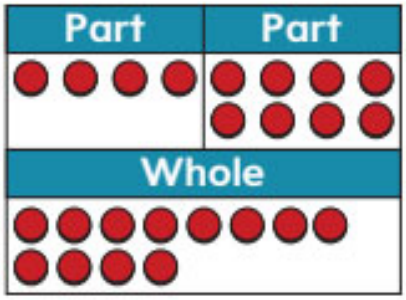


Math is... Thinking

How can you use addition to show the problem.

An equation shows the problem.

$? - 5 = 7$



$12 - 5 = 7$

Henry had 12 shirts in the basket.

In some subtraction equations, the whole is unknown.

Work Together

Some purple and green grapes are in a bowl.
8 grapes are purple. 11 grapes are green.
How many grapes are in the bowl?

Show your thinking. $11 + 8 = 19$

19 grapes

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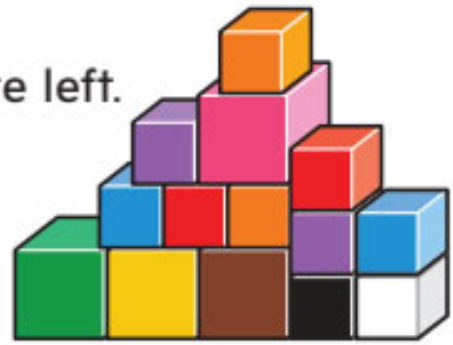
On My Own

MATH REPLAY | GO ONLINE

Name _____

Write an equation to show the problem. Use ? for the unknown. Then solve.

1. Rai has some blocks.
He takes out 4 blocks, 10 blocks are left.
How many blocks did Rai have?



Equation: 14 − 4 = 10

14 blocks

2. A bookshelf holds some books.
8 books are on the bottom shelf.
9 books are on the top shelf.
How many books?

Equation: 8 + 9 = 17

17 books

3. Some caterpillars are in a tree.
8 are green and 5 are yellow.
How many caterpillars?

Equation: 8 + 5 = 13

13 caterpillars

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4. Simon has some ribbons in a bag.
He takes 5 ribbons out. 7 ribbons stay in the bag.
How many ribbons does Simon have?
Draw to show your thinking. 12 - 5 = 7

12 ribbons

5. **Extend Your Thinking** Make a problem. Make the total unknown and the two parts known.
Then solve.

Reflect

How can you show a problem when the whole is unknown?

Math is... Mindset

How well do you think you did with today's tasks?

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Unit 8

Problems and Equations 2

CHERYL TOBEY MATH PROBES

Name _____

1. Alex has 11 dimes. He gives 7 dimes to his sister. How many dimes does Alex have left?

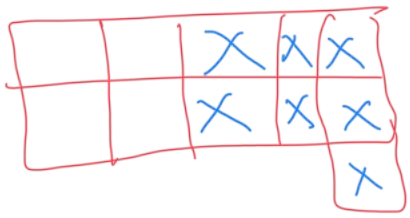
Circle the equation that shows the problem.

11 − ____ = 7

11 − 7 = 4

11 + 7 = ____

Tell or show why.



2. Mia has 13 stars on her paper. Then she glues on some more stars. Now she has 19 stars on her paper. How many stars did she just glue on?

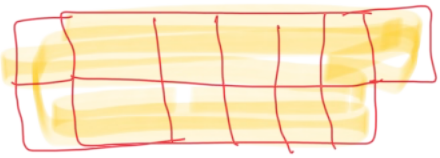
Circle the equation that shows the problem.

19 − ____ = 13

19 − 13 = ____

13 + 6 = 19

Tell or show why.





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3. 17 cars are in a lot. Some cars drive away. Now 8 cars are in the lot. How many cars drive away?

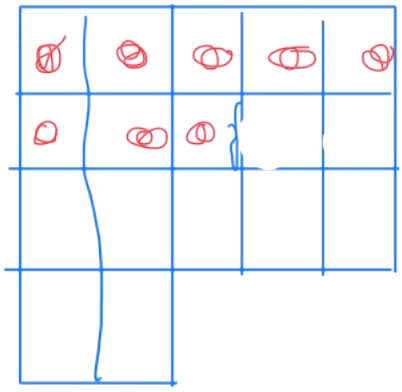
Circle the equation that shows the problem.

$17 - \underline{9} = 8$

$17 - 8 = \underline{\quad}$

$17 + 8 = \underline{\quad}$

Tell or show why.



Reflect On Your Learning





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Lesson 8-4

Represent and Solve More Take Apart Problems

Be Curious

Tell me everything you can.



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Math is... Mindset

What helps you know when there is a problem?

Learn

Jill has 13 balls in a bin. She puts some in a drawer. The rest stay in a bin.



How many can be in the drawer and how many can be in the bin?

Use a part-part-whole mat to show the problem.

Part	Part
?	?
Whole	



Math is... Quantities

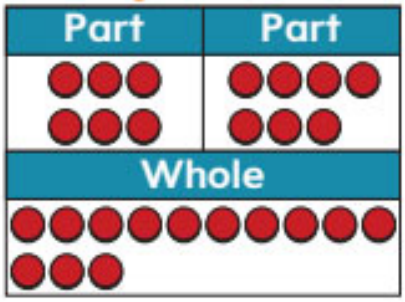
What other equations match the problem?

An equation can show the problem.

What can be one part?

$13 - ? = ?$

Part	Part
Whole	



$13 - 6 = 7$

6 balls can be in the drawer and 7 can be in the bin.

When both parts of an equation are unknown, there can be many different equations.

Work Together

اي رقمين مجموعهما = ١٠

Layla has 10 beads. Some are purple. The rest are orange. How many purple and how many orange?

Show your thinking.

5 purple beads and 5 orange beads

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Write an equation to show the problem. Use ? for the unknown. Then solve.

1. Carlita has 11 hair ties. Some are old and some are new. How many are old and how many are new?



Equation: ? + ? = 11

5 old and 6 new

2. There are 15 balls. Some roll left. The others roll right. How many roll left and how many roll right?

Equation: ? + ? = 15

10 roll left and 5 roll right

3. There are 19 bugs. Some are ladybugs. Some are beetles. How many ladybugs and how many beetles?

Write two different answers.

10 ladybugs and 9 beetles

12 ladybugs and 7 beetles

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4. Error Analysis Micah and Lena solve this problem.

> There are 15 bracelets and necklaces on a tray.
> How many bracelets and how many necklaces?

Micah writes $15 - 10 = 5$. Lena writes $15 - 8 = 7$.
Can they both be correct? Explain.

Yes, because $8 + 7 = 15$
$10 + 5 = 15$

5. Extend Your Thinking Make a subtraction problem to match the part-part-whole mat.

Part	Part
?	?
Whole	
13	

$13 - 3 = 10$

Reflect

How do the two unknown parts in a problem relate to the total?

Math is... Mindset

What helped you know when there was a problem?

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Lesson 8-5

Solve Problems Involving Subtraction

Be Curious

Raj has some mugs.
He puts some mugs in the cabinet.
He puts the rest on the table.

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Math is... Mindset

What makes you feel frustrated in math?

Learn

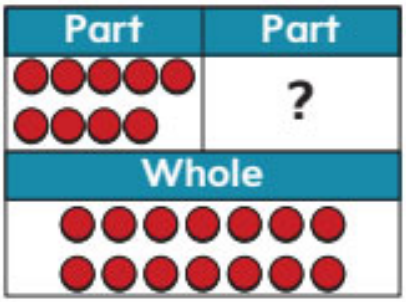


Raj has 14 mugs on the table.
He puts 9 mugs in the cabinet.

How many mugs are still on the table?

One Way Use a part-part-whole mat.

$14 - 9 = ?$



Think addition to subtract.

Math is... Perseverence

How can you check that your answer is correct?

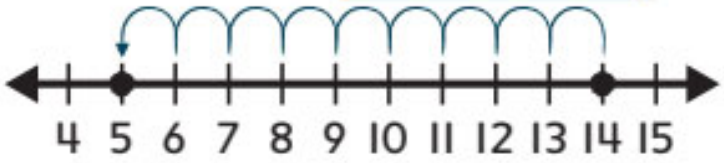
Another Way Use a number line.

$14 - 9 = ?$

$14 - 9 = 5$

5 mugs are still on the table.

Count back to subtract.



Work Together

Hannah has 15 dishes. 6 are plates and the rest are bowls. How many bowls does she have?

Show your thinking. 15 − 6

9 bowls

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Write an equation to show the problem. Use ? for the unknown. Then solve.

1. There are 12 pieces of fruit. 4 are bananas and the rest are apples. How many apples?





Equation: 12 − 4 = 8

8 apples

2. Jian has 13 fish. 6 are small and the rest are large. How many large fish does Jian have?

Equation: 13 − 6 = 7

7 large fish

3. Stew sees 19 turtles. He sees 7 box turtles. The rest are sea turtles. How many sea turtles does Stew see?

Equation: 19 − 7 = 12

12 sea turtles

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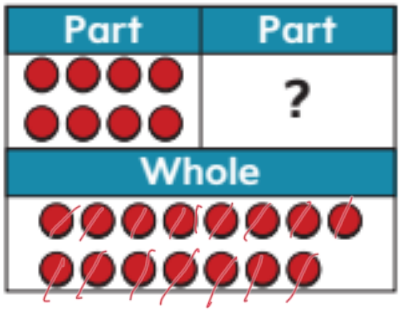
4. **STEM Connection** Chloe builds 11 birdhouses. She paints 6 blue. She paints the rest yellow. How many does she paint yellow?

Draw to show your thinking.



5 birdhouses $11 - 6 = 5$

5. **Extend Your Thinking** Make up a subtraction problem to match the part-part-whole mat.



$15 - 8 = 7$

Reflect

How did you think like a mathematician to solve subtraction word problems?

1) First identify the key mathematically
2) Translate the problem's language into a mathematical expression
3) Apply the appropriate subtraction techniques
Finally, check Answer.

Math is... Mindset

What made you feel frustrated in math today?

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Lesson 8-6

Solve More Problems Involving Subtraction

Be Curious

The coach has some basketballs.
She puts some in a bin.
She has some basketballs left.

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Math is... Mindset

How can different ideas help you learn better?

Learn

The coach has 14 basketballs.
She puts some in a bin.
She has 8 basketballs left.



How many basketballs does the coach put in the bin?

Use a part-part-whole mat.

$14 - ? = 8$

Part	Part
?	
Whole	

Think addition to subtract.

Math is... Choosing Tools

What other tool can you use to solve?

Either part in a subtraction equation can be unknown.
You can find different unknowns.

Work Together

There are 14 animals. Some are zebras and 3 are lions. How many zebras?

Show your thinking. $14 - 3 = 11$

11 zebras

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Write an equation to show the problem. Use ? for the unknown. Then solve.

1. Kelly has 16 carrots.
She cooks 8 carrots for dinner.
How many carrots are left?



Equation: 16 − 8

8 carrots

2. Ann has some apples. She eats 7 apples.
She has 10 apples left. How many did she have to start?

Equation: 7 + 10

17 apples

3. There are 13 squirrels. Some run away. 4 squirrels are left. How many squirrels ran away?

Equation: 13 − 4

9 squirrels

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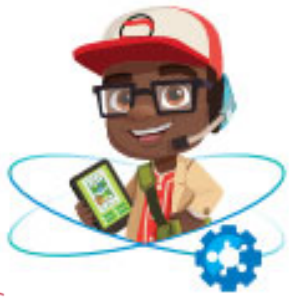
4. **STEM Connection** C.J. asks 14 students to name their favorite sport. 9 say baseball and the rest say football. How many students said football?



Draw to show your thinking. $14 - 9 = 5$

5 students

5. **Extend Your Thinking** Make a subtraction problem where both parts are known but the total is unknown.

$15 - 5 = ?$

$= 10$

Reflect

How can you show different kinds of subtraction problems?

Math is... Mindset

How have different ideas helped you learn better?

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Lesson 8-7

Solve Problems Involving Addition and Subtraction

Be Curious

What could the question be?



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Math is... Mindset

What can you do today to help build a good relationship with a classmate?

Learn

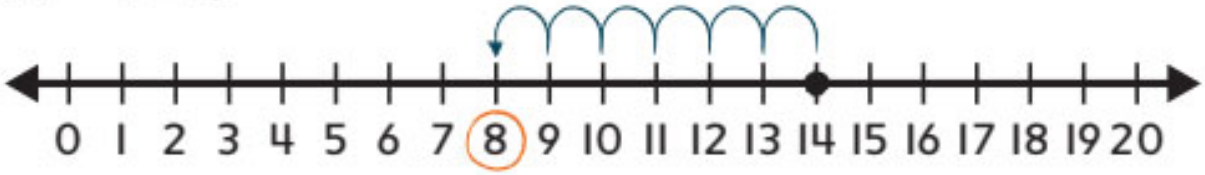
There are 14 cherries. Emma takes 8 cherries and leaves her brother 8 cherries.



How many cherries does Emma take?

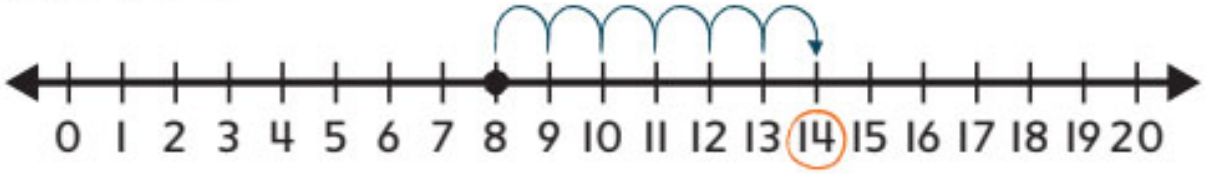
One Way Use a subtraction equation.

$14 - ? = 8$



Another Way Use an addition equation.

$14 = ? + 8$



You can add or subtract to solve some problems.

Math is... Explaining

Which operation will you use?

Work Together

Wes has 11 grapes. He eats some grapes. Now he has 4 grapes. How many grapes did Wes eat?

Show your thinking. 11 − 4

7 grapes

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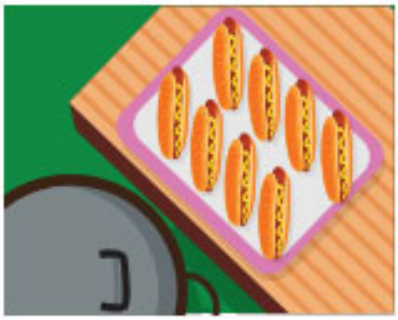
On My Own

MATH REPLAY | GO ONLINE

Name @ Naval – 4

Write an equation to show the problem. Use ? for the unknown. Then solve.

1. Kendra makes 15 hotdogs. 8 hotdogs are on a plate. The rest are on the grill. How many hotdogs are on the grill?



Equation: 15 – 8

7 hotdogs

2. There are 11 hippos. More hippos join. Now there are 17 hippos. How many hippos join?

Equation: 17 – 11 = 6

6 hippos

3. There are 18 magnets. 9 magnets are squares and the rest are circles. How many magnets are circles?

Equation: 18 – 9

9 magnets

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4. Error Analysis Abe and Leo solve this problem.

> There are 13 cartons of milk. Students drink 6 of the cartons of milk. How many cartons of milk are left?

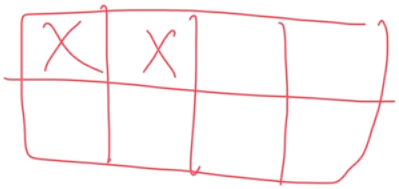
Abe writes 13 − 6 = ? and Leo writes 6 + ? = 13.

Can they both be correct? Explain.

Yes because 13 − 6 = 7 cartons
They give me how many left
and 6 + ? = 13 → 7 which numbre add to 6 to 6e 13 = 7

5. Extend Your Thinking Make a subtraction or addition problem. Then solve. Draw to show your work.

8 − 2 = 6



Reflect

How can you add or subtract to solve problems?

Math is... Mindset

What have you done today to help build a good relationship with a classmate?

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Unit Review

Name _____

Vocabulary Review

Use the vocabulary to complete the sentence.

difference	part
unknown	whole
problem	

1. A ? shows the unknown in an equation.

2. You subtract one number from another to find the difference.

3. In 12 − 7 = 5, 7 is one part and 5 is the other.

4. In a subtraction problem, the total is the same as the whole.

5. A problem tells a story that uses numbers.

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Review

6. There are 13 stuffed animals. Some are tigers. 8 are zebras. How many are tigers?

   Which equation shows the problem? Choose all the correct answers.

   A. $13 + 8 = ?$

   B. $8 + ? = 13$

   C. $13 - ? = 8$

ممكن الحل بطريقتين

7. Bonnie reads 12 books. Some are animal books and some are science books. How many of each book does Bonnie read?

   Which equation shows the problem? Choose all the correct answers.

   A. $12 = 5 + 7$

   B. $7 + 8 = 15$

   C. $9 + 3 = 12$

8. There are 12 dogs at the park. Some dogs go home. Now 3 dogs are at the park. How many dogs went home? $12 - 3$

   9 dogs

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9. Jake has 10 books in his backpack. He takes out 3 books. How many books are left?

7 books 10 − 3

10. A jar holds orange and blue marbles. There are 5 orange marbles and 9 blue marbles. How many marbles are in the jar? 9 + 5

14 marbles

11. Hannah has 12 tools. 4 are hammers and the rest are wrenches. How many wrenches does she have?

8 wrenches 12 − 4

12. There are 15 kites. Some are flat and some are boxy. How many of each kite could there be? Choose all the correct answers.

A. 5 flat and 7 boxy

B. 6 flat and 9 boxy

C. 7 flat and 8 boxy

13. Evan has some boxes to move. He moves 6 boxes. He has 5 more boxes to move. How many boxes did Evan start with? 6 + 5

11 boxes

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Performance Task

The veterinarian sees fewer than 20 animals today. He sees 10 dogs before lunch.

Part A: Does the veterinarian see the same number of dogs and cats today? Explain your thinking.

For example 9
This leave fewer than 10 animals remaining

Part B: How many cats can the veterinarian see?

The number of cat could by any whole number from 0—9

Part C: What can you say about the number of dogs compared to the number of cats the veterinarian sees?

The veterinarian sees dogs more then cats

Reflect

How can you solve different subtraction problems?

1) Using a number line.
2) Making tens
3) using addition.

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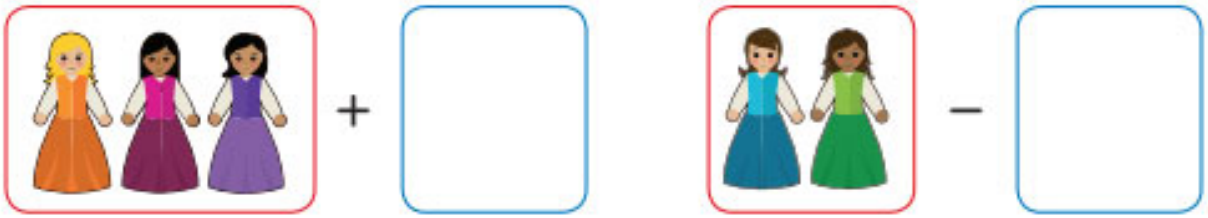
Unit 8

Fluency Practice

Name _____

Fluency Strategy

You can add 0 to a number. The sum is that number. You can subtract 0 from a number. The difference is that number.



$3 + 0 = 3$ $\qquad$ $2 - 0 = 2$

1. How can you find the sum of $8 + 0$? How can you find the difference of $8 - 0$? Explain your thinking.

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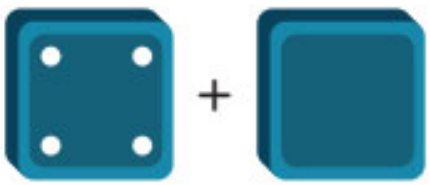
Fluency Flash

What is the sum or difference? Write the number.

2. $4 + 0 =$ 4



3. $1 - 0 =$ 1



Fluency Check

What is the sum or difference? Write the number.

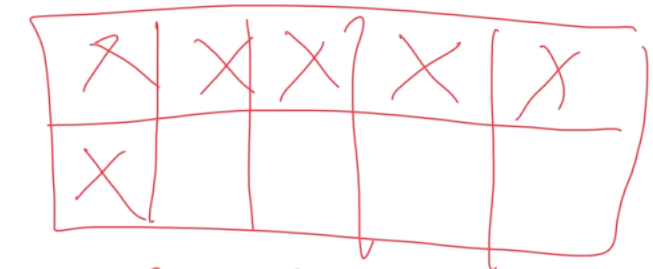
4. $10 - 3 =$ 7
5. $8 + 2 =$ 10
6. $9 - 0 =$ 9
7. $7 + 0 =$ 7
8. $5 + 5 =$ 10
9. $3 + 0 =$ 3
10. $10 - 0 =$ 16
11. $1 + 9 =$ 16
12. $4 - 0 =$ 4
13. $6 + 0 =$ 6

Fluency Talk

What do you know about 5 + 0? How can you use what you know to add 0 to other numbers?

Adding zero to any number results in the original number. This is the additive identity property

How can you show 10 − 6 = 4? Explain your work.



10 - 6 = 4

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Addition within 100

Focus Question

How do I use strategies to add 2-digit numbers?



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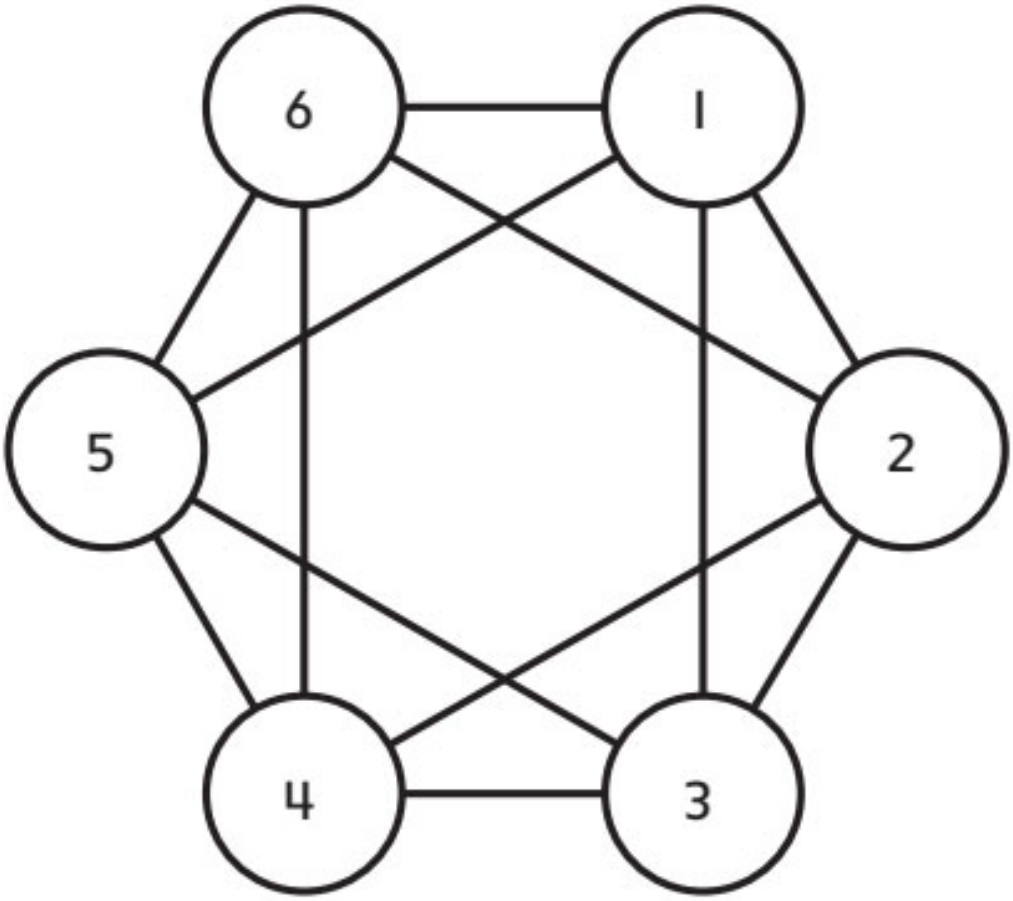
IGNITE!

Name _____

Race to 21

Play an adding game.



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Lesson 9-1

Use Mental Math to Find 10 More

Be Curious

What do you see?



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Math is... Mindset

How can you be part of the classroom community?

Learn

Rachel has 21 stamps. Henry gives her 10 more stamps.

How many stamps does Rachel have now?



You can use mental math to add 10 to a **2-digit number**.

$21 + 10 = 31$

$47 + 10 = 57$

$74 + 10 = 84$

Math is... Patterns

What patterns do you see?

When you add 10, the tens **digit** goes up by 1 and the ones digit stays the same.

Work Together

Tom has 35 grapes. He gets 10 more grapes.
How many grapes does Tom have now?

Explain your thinking. 35 + 10

45 grapes

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Is the equation true? Circle Yes or No.

1. $17 + 10 = 18$

   Yes (No)

2. $32 + 10 = 42$

   (Yes) No

What is the sum?

3. $10 + 51 =$ 61

4. $86 + 10 =$ 96

5. $10 + 64 =$ 74

6. $79 + 10 =$ 89

7. $18 + 10 =$ 28

8. $44 + 10 =$ 54

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9. Brenda has 58 red ribbons and 10 blue ribbons. How many ribbons does she have?

68 ribbons

10. **STEM Connection** Ruby gives her dog 16 treats each day. The vet says the dog can have 10 more treats each day. How many treats can Ruby's dog have each day?



26 treats

11. **Extend Your Thinking** Some crayons are on the table. 10 crayons are in a box. There are 33 crayons in all. How many crayons are on the table? Explain your thinking. 33 − 10

23 crayons

Reflect

How can you add 10 to a number?

The tens digit goes up by 1 and the ones digit stays the same

Math is... Mindset

How were you part of the classroom community today?

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Unit 9

Patterns and Addition

CHERYL TOBEY MATH PROBES

Name _____

Circle the answer.

1. What number belongs in the ? box in the chart?

	57	58	
		?	
76			

+10

59 62 68 72 74 75

None of these numbers

Tell or show why.

58 + 10

2. What number belongs in the ? box in the chart?

	22		24		
			34		
			54		
				55	

25 26 36 44 50 54

None of these numbers

Tell or show why.

24 + 10 = 34

34 + 10 = 44

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3. What is 10 more than 74?

75 76 80 84 85

None of these numbers

Tell or show why.

4. What is 20 more than 43?

45 53 60 63 65

None of these numbers

Tell or show why.

Reflect On Your Learning





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Lesson 9-2

Represent Adding Tens

Be Curious

Tell me everything you can.



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Math is... Mindset

What helps you make good decisions about your behavior?

Learn

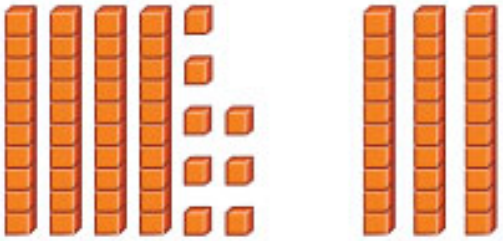


Milo has 48 trading cards.
He buys 30 more trading cards.

How many trading cards does Milo have now?

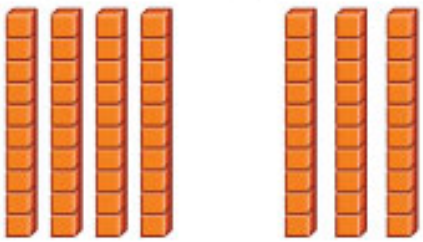
48 + 30 = ?

Show 48 and 30.



48 30

Add the tens.

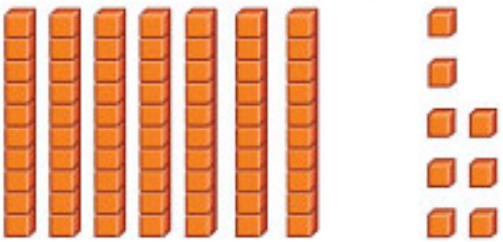


40 + 30 = 70

Math is... Patterns

How is adding 30 similar to adding 10?

Add the tens and ones.



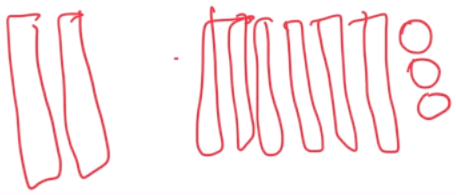
70 + 8 = 78

So, 48 + 30 = **78**.

Work Together

What is the sum?
Show your thinking.

20 + 63 = 83



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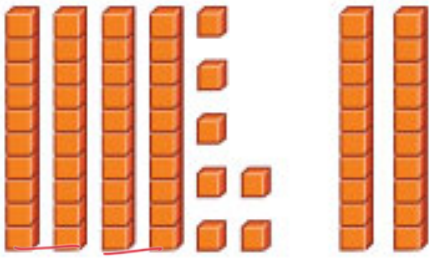
On My Own

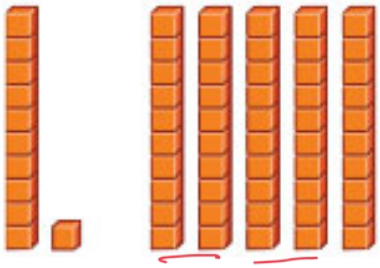
MATH REPLAY | GO ONLINE

Name _____

What is the sum? Fill in the equation.

1. 

47 + 20 = 67

2. 

11 + 50 = 61

What is the sum?

3. 29 + 60 = 89

4. 35 + 40 = 75

5. 78 + 10 = 88

6. 30 + 69 = 99

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7. Pete sees 25 fish. He sees 20 more fish. How many fish does Pete see in all?

45 fish 25 + 20

8. **Error Analysis** Look at Min's work. Do you agree with the sum? Explain your thinking.

19 + 40 = 50

X

19 + 40 = 59

9. **Extend Your Thinking** Write a word problem about adding tens to a number. Then solve.

A farmer has 30 apple trees in his orchard. He plants 20 more apple trees. How many apple trees does the farmer have in total?

30 + 20 = 50

Reflect

How can you add tens to any number?

Math is... Mindset

What helped you make good decisions about your behavior?

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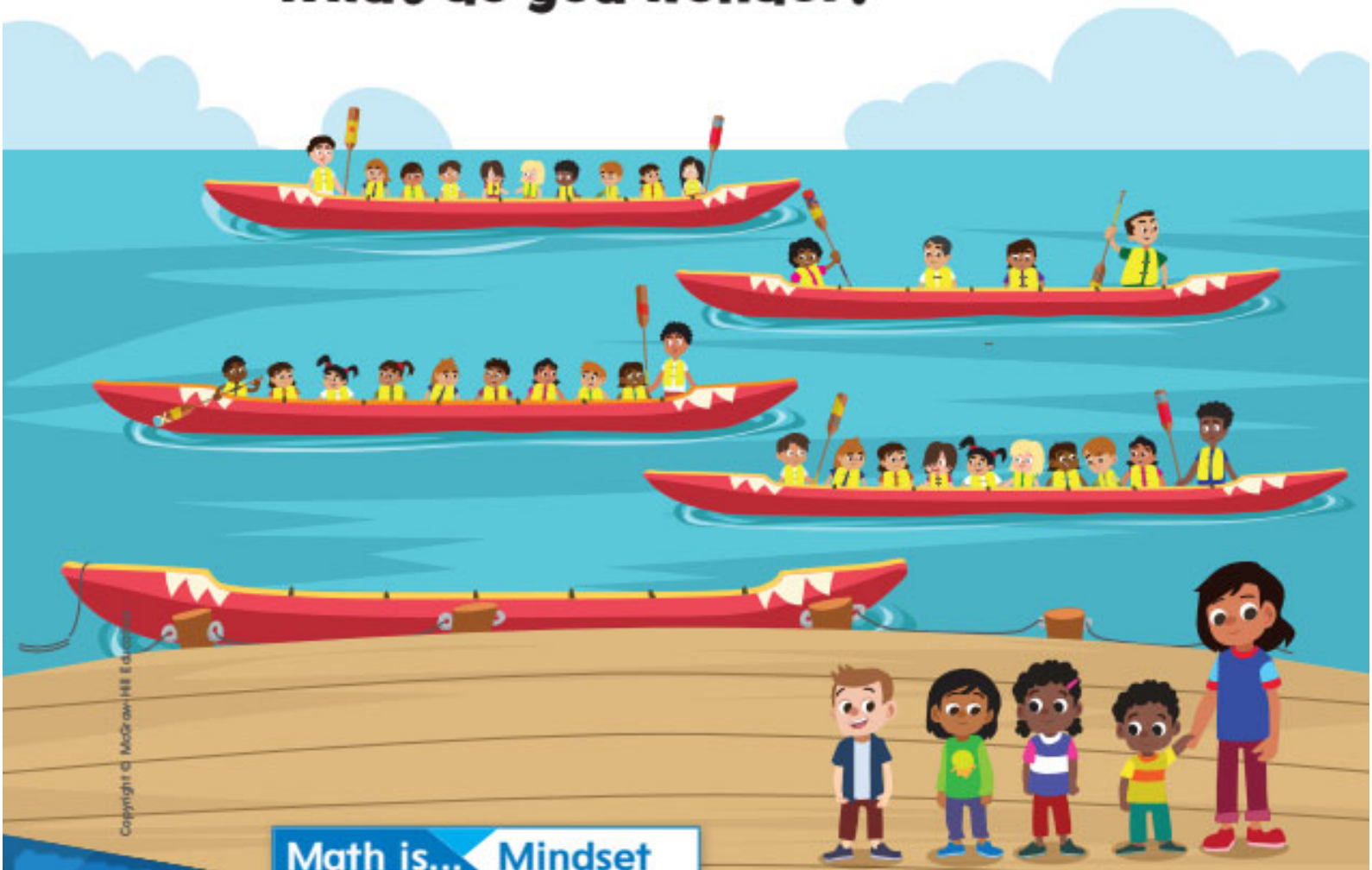
Lesson 9-3

Represent Adding Tens and Ones

Be Curious

What do you notice?
What do you wonder?



Math is... Mindset

What are your math superpowers?

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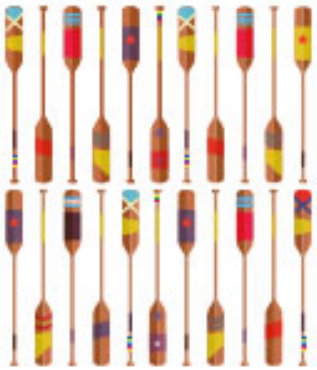
Learn

Don has 22 oars. He buys 6 more oars.

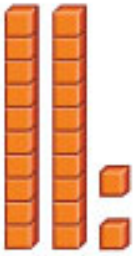
How many oars does Don have now?





$22 + 6 = ?$

Show 22 and 6.



22

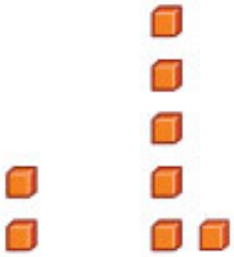


6

Math is... Explaining

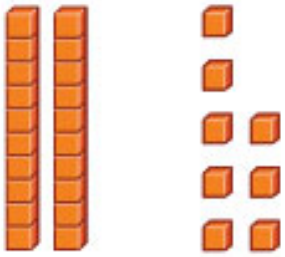
Why do you add 6 to the ones and not to the tens?

Add the ones.



$2 + 6 = 8$

Add the tens and ones.



$20 + 8 = 28$

So, $22 + 6 = \mathbf{28}$.

Work Together

What is the sum?
Show your thinking.

$62 + 5 = 67$



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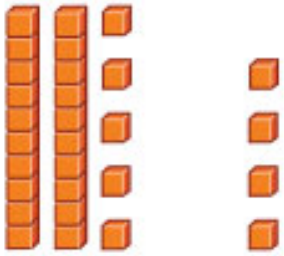
On My Own

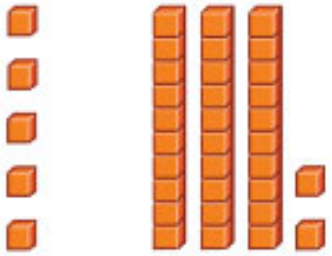
MATH REPLAY | GO ONLINE

Name _____

What is the sum? Fill in the equation.

1. 

25 + 4 = 29

2. 

5 + 32 = 37

What is the sum?

3. 34 + 4 = 38

4. 65 + 2 = 67

5. 3 + 26 = 29

6. 51 + 8 = 59

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7. The farmer has 21 melons. She picks 6 more melons. How many melons does the farmer have now?

27 melons 21 + 6

8. Laura takes 35 photos. She takes 3 more photos. How many photos does Laura take? Draw to show your thinking.

38 photos

9. **Extend Your Thinking** Make your own equation adding ones to a 2-digit number. Then solve.

1) Create an equation, Let's use 25 + 11
2) Add the ones digits 5 + 1 = 6
3) Add the tens digits 2 + 1 = 3
4) Combine the results 36

Reflect

How can you add ones to a number?

Math is... Mindset

How have your math superpowers helped you today?

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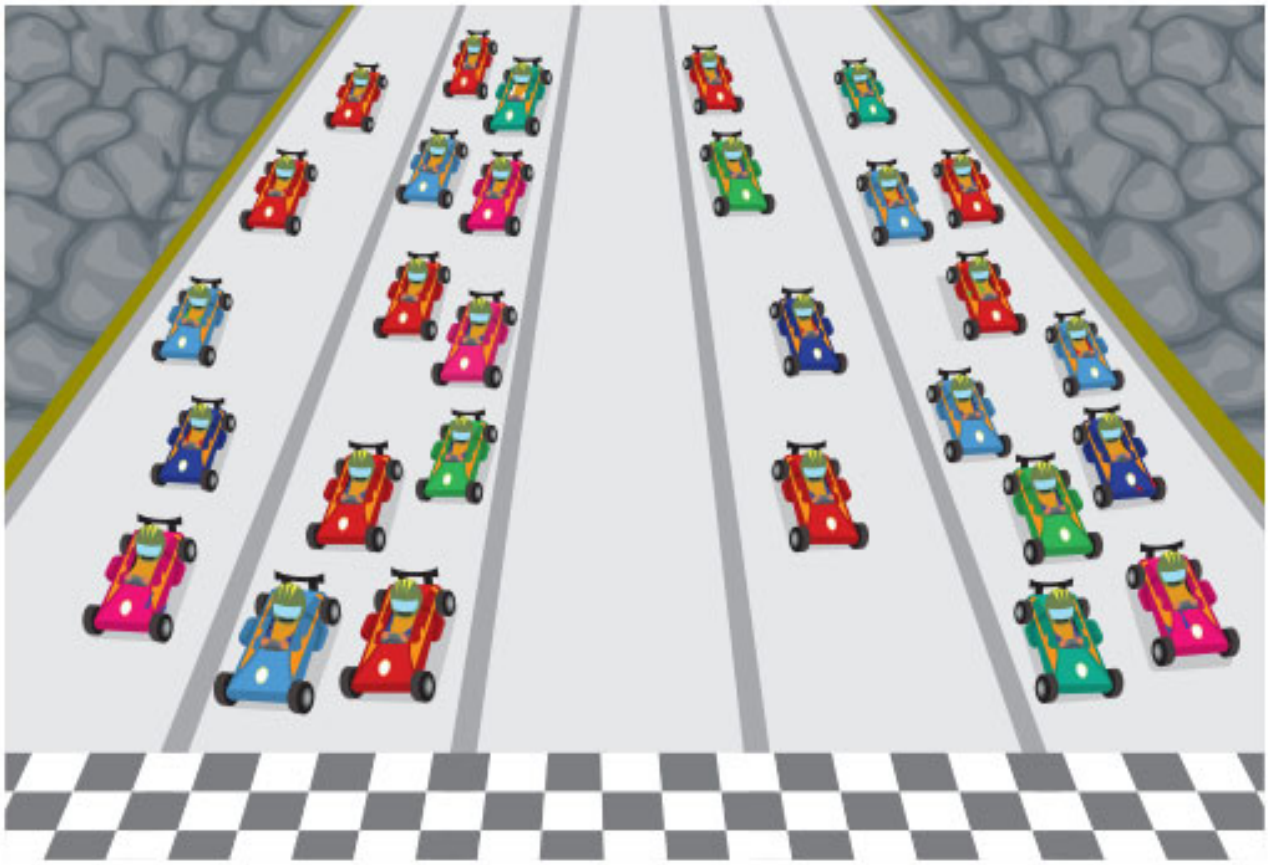
Lesson 9-4

Decompose Addends to Add

Be Curious

What do you notice?
What do you wonder?



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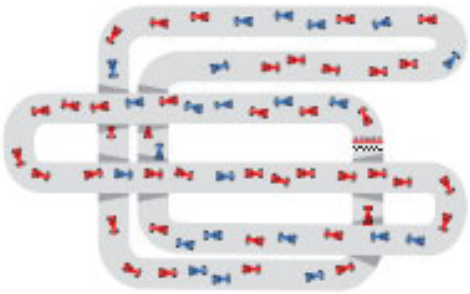
Math is... Mindset

How can you show you understand how others are feeling?

Learn

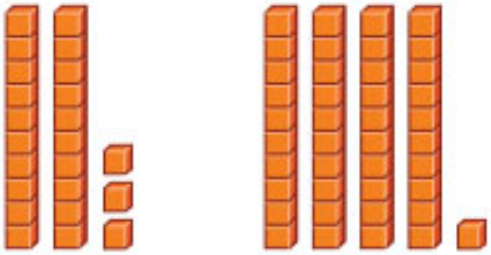


23 cars are blue. 41 cars are red.

How many cars are there?

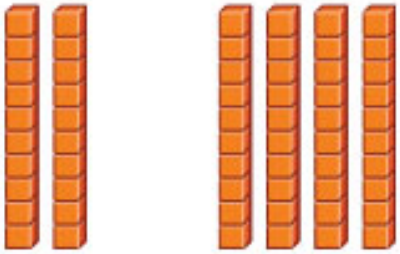
$23 + 41 = ?$

Show 23 and 41.



23 41

Add the tens.



20 + 40 = 60

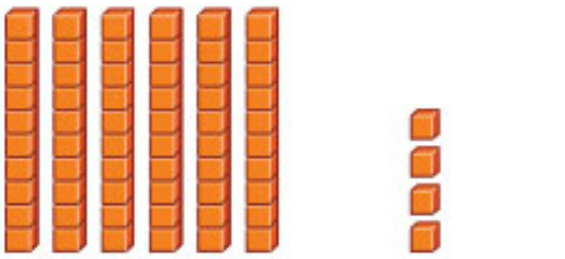
Add the ones.



3 + 1 = 4

Math is... Modeling

How can you show each addend?



60 + 4 = 64

So, 23 + 41 = **64**.

Work Together

What is the sum? Add the tens, then add the ones. Then add the tens and ones.

34 + 25 = 59

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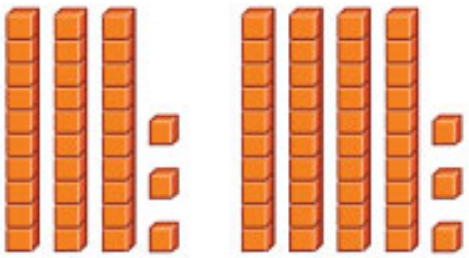
On My Own

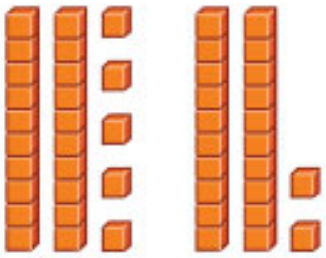
MATH REPLAY | GO ONLINE

Name _____

What is the sum?

1. 

$33 + 43 = 76$

2. 

$25 + 22 = 47$

What is the sum? Show adding the tens, then the ones. Then add the tens and ones.

3. $61 + 18 = 79$

4. $43 + 25 = 68$

5. $21 + 51 = 72$

6. $14 + 34 = 48$

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7. Error Analysis Val adds 31 + 27.

$1 + 7 = 8$

$30 + 20 = 50$

She says the sum is 50. Do you agree? Explain.

I Dont agree

1+7=8

30+20 = 50

then 50+8 =58

8. Extend Your Thinking One team has 26 players. One team has 23 players. How many players are on the two teams? 23+26

49 players

Reflect

How is adding tens then ones helpful?

Math is... Mindset

What helped you understand how others are feeling?

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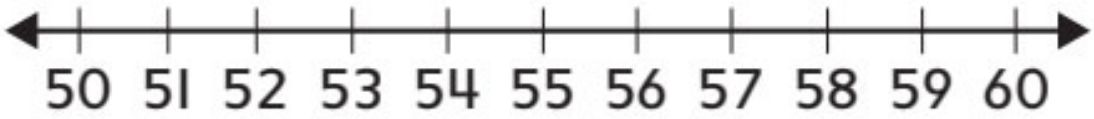
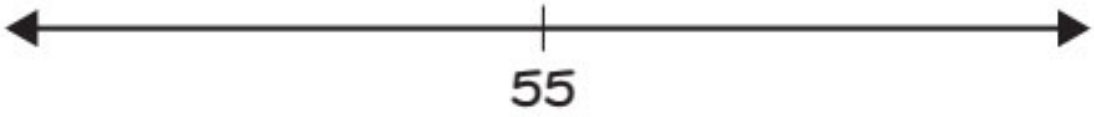
Lesson 9-5

Use an Open Number Line to Add within 100

Be Curious

How are they the same?
How are they different?





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Math is... Mindset

What helps you solve a problem?

Learn

How can you use a number line to add 55 + 24?



55 + 24 = ?

Start with 55.
It is the greater addend.

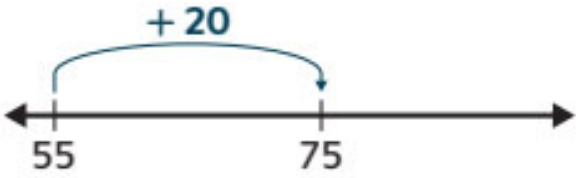


No tick marks.

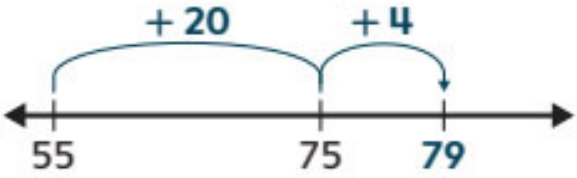
Math is... Explaining

Why do you start with the greater addend?

Add the tens.



Then add the ones.



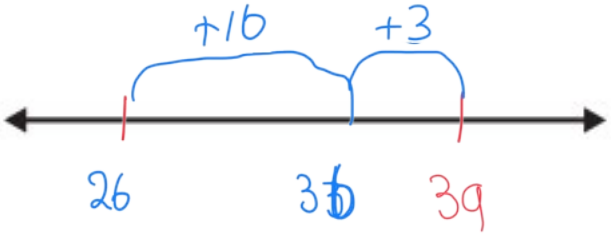
55 + 24 = **79**

You can use an **open number line** to add numbers.

Work Together

What is the sum? Use an open number line.

13 + 26 = 39



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On My Own

Name _____

What is the sum?

1. $24 + 34 = 58$

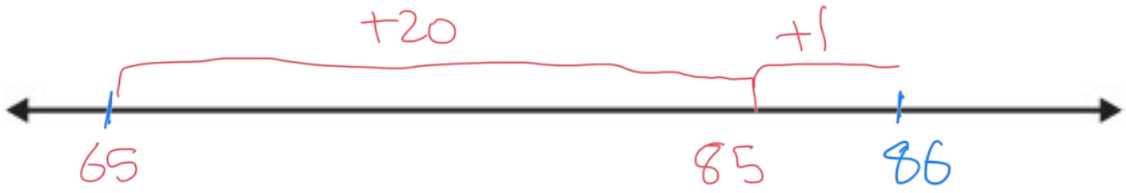
2. $72 + 15 = 87$

3. $37 + 40 = 77$

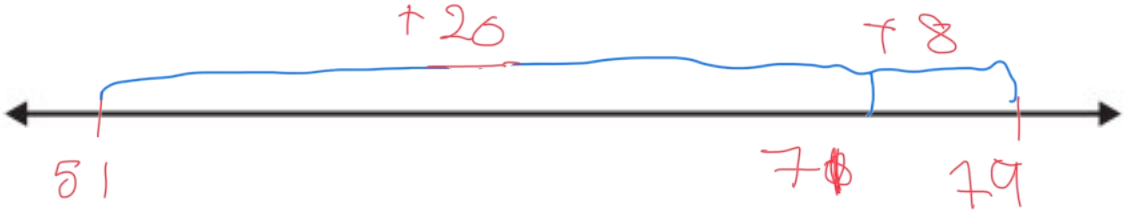
4. $63 + 21 = 84$

What is the sum? Use the open number line.

5. $65 + 21 = 86$



6. $28 + 51 = 79$



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7. **STEM Connection** Paramedics drive 35 miles. They drive 22 more miles. How many miles do they drive? Show your thinking on the open number line. 35 + 22 = 57



5 miles



8. **Extend Your Thinking** How is adding on an open number line like counting on to add?

Reflect

How can you use an open number line to add?

1) start with the greater addend

2) Add the tens

3) then add the ones

Math is... Mindset

What helped you solve a problem?

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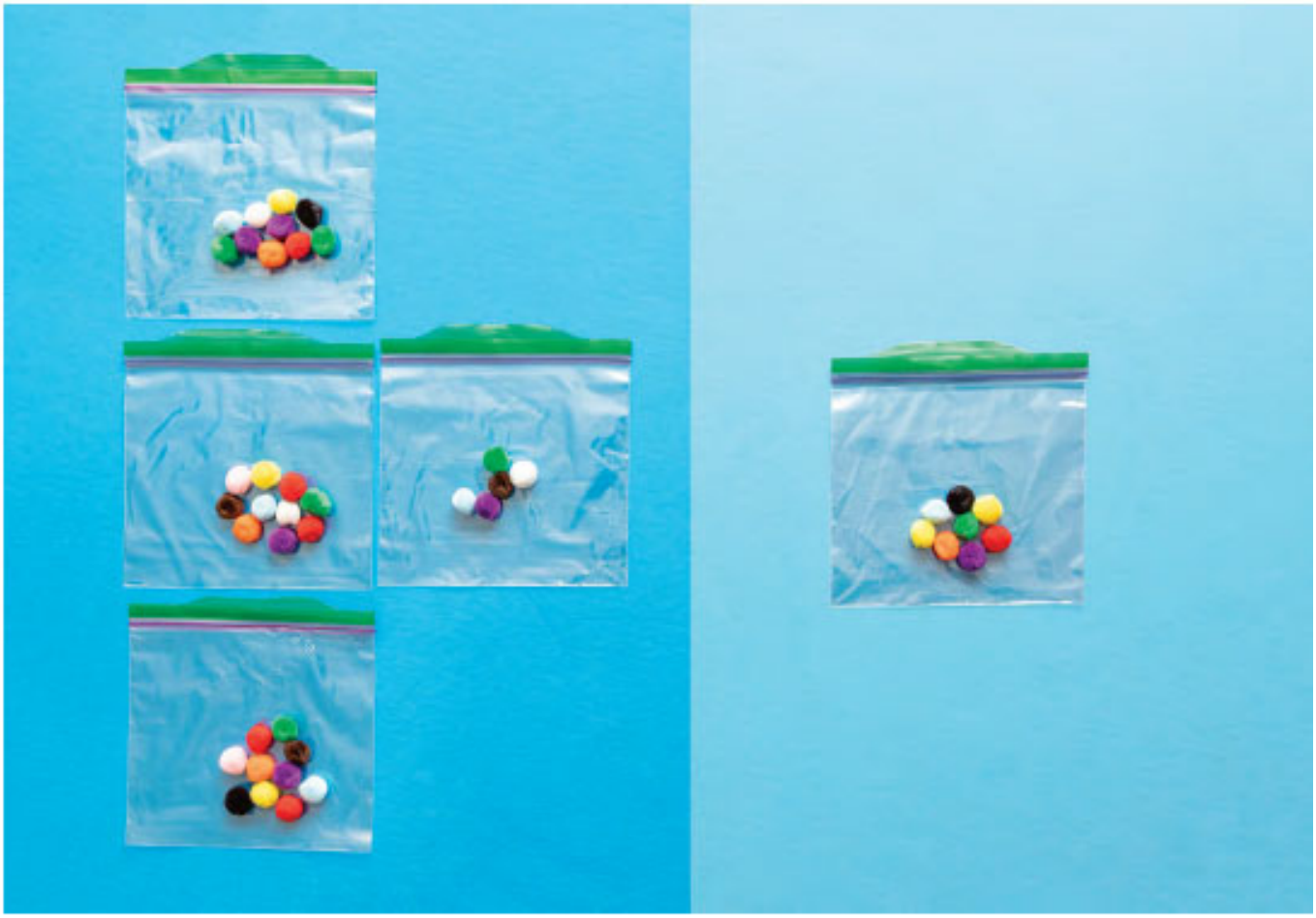
Lesson 9-6

Decompose to Add on an Open Number Line

Be Curious

What could the question be?



Math is... Mindset

What is your goal for today?

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Learn

Jill has 35 pompoms.
Daryn has 8 pompoms.

How many pompoms do they have?

$35 + 8 = ?$

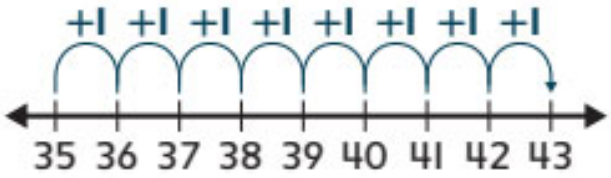


Jill

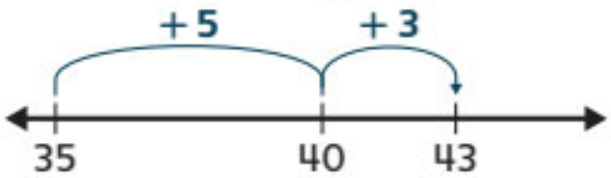


Daryn

▶ **One Way** Count on by 1.



▶ **Another Way** Make a 10 to add.



$35 + 8 = \mathbf{43}$

Math is... Quantities

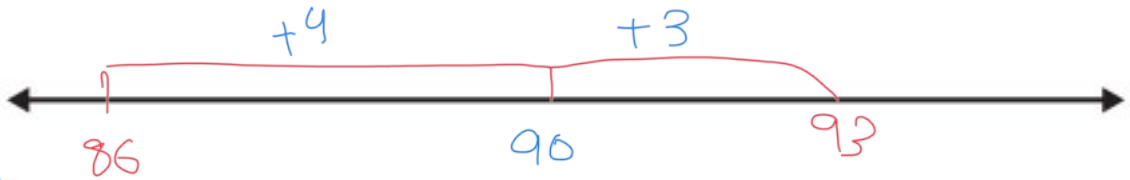
How does the number line show each addend?

When you add, sometimes you break apart one addend to make a 10.

Work Together

What is the sum? Use the open number line.

$86 + 7 =$ 93



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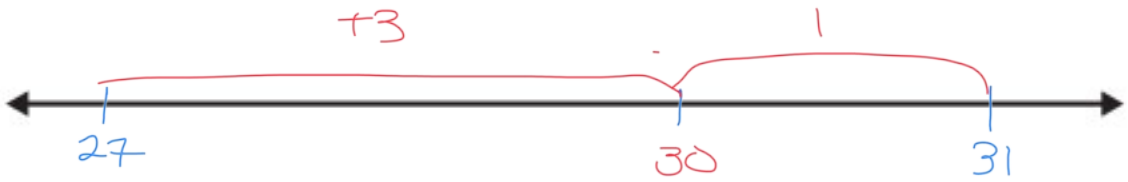
On My Own

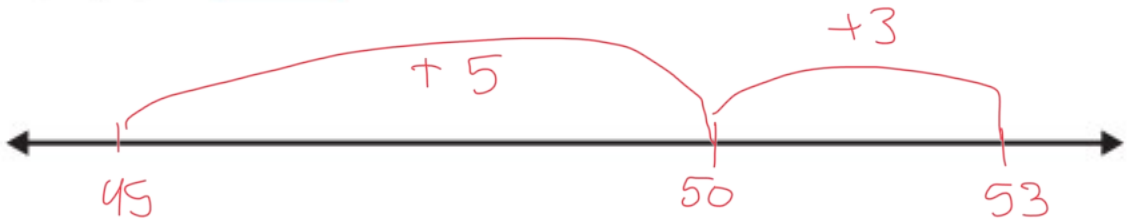
Name _____

What is the sum? Use the open number line.

1. $27 + 4 = 31$



2. $45 + 8 = 53$



What is the sum?

3. $9 + 62 = 71$

4. $36 + 7 = 43$

5. $59 + 5 = 64$

6. $6 + 74 = 80$

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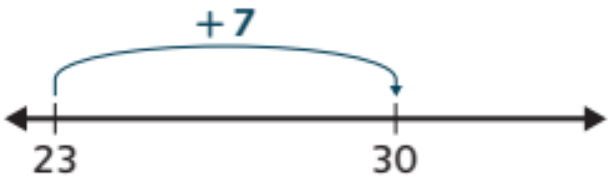
7. Maria has 37 round beads. She has 9 long beads. How many beads does Maria have?

46 beads

8. **Error Analysis** Enzo adds 9 + 23.



He says the sum is 30. Do you agree? Explain.

9. **Extend Your Thinking** Kia has 26 buttons. She buys 7 more. How can you find how many buttons?

26 + 7 = 33

Reflect

How can you use an open number line to add ones to a number? Step 1

Break apart one addend to make a 10

Then add the remaining part of the second to the result

Math is... Mindset

How have you worked to reach your goal today?

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Regroup to Add

Be Curious

What do you notice?
What do you wonder?



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Math is... Mindset

How do you share your thinking clearly?

Learn



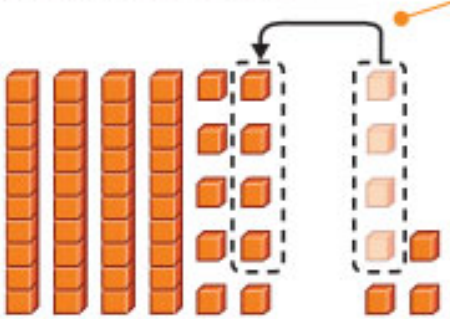
46 toys are in the machine.
7 toys are near it.

How many toys are there?

46 + 7 = ?

Add the ones.

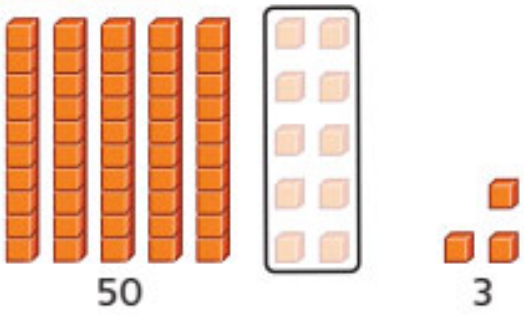
Make a 10.



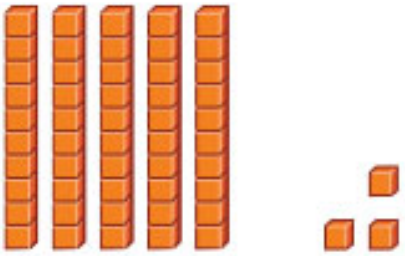
Math is... Explaining

How many tens and ones are in 46 and 7?

Regroup 10 ones as 1 ten.



Add the tens and ones.



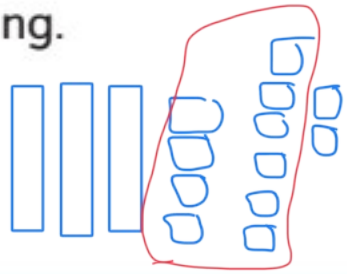
50 + 3 = 53

46 + 7 = **53**

Work Together

What is the sum? Explain your thinking.

34 + 8 = 42



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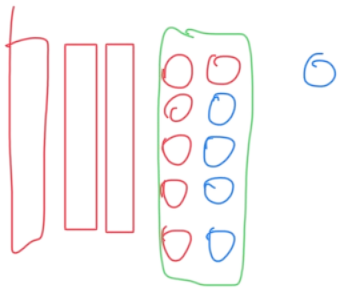
On My Own

MATH REPLAY | GO ONLINE

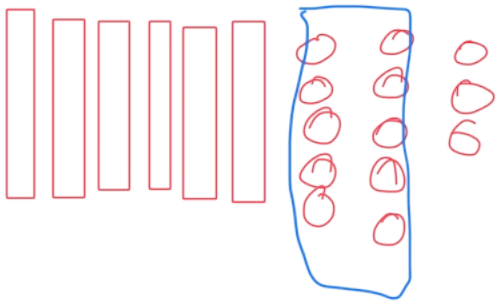
Name _____

What is the sum? Show regrouping 10 ones as 1 ten.

1. $36 + 5 =$ 41

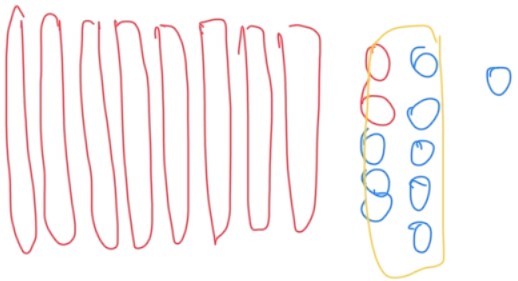


2. $65 + 8 =$ 73

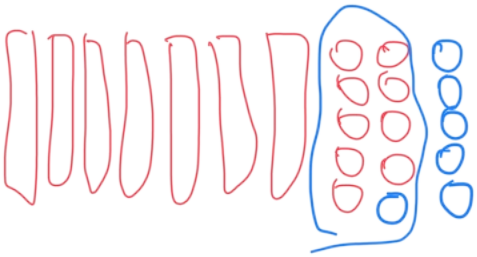


What is the sum?

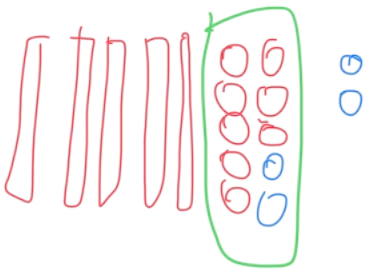
3. $82 + 9 =$ 91



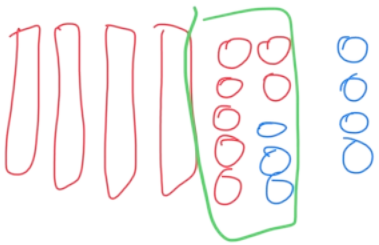
4. $6 + 79 =$ 85



5. $58 + 4 =$ 62



6. $7 + 47 =$ 54



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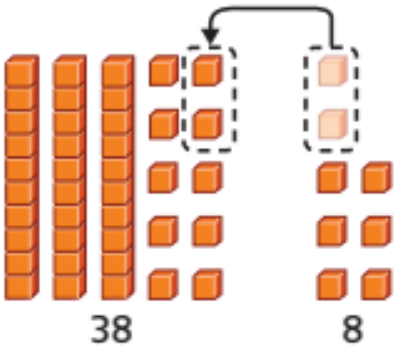
7. Error Analysis Marion uses blocks to add 38 + 8.



Marion says the sum is 48. How can you help Marion add correctly?

38 + 8 = 46

8. Extend Your Thinking Write an addition problem where you have to regroup to add. Then explain how to solve your addition problem.

29 + 3 = 32



Reflect

How can you regroup to add ones to a number?

1) Add the one to make 10
2) Regroup 10 ones as 1 ten
3) Add the tens and ones

Math is... Mindset

Why is it important to share your thinking clearly?

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Add 2-Digit Numbers

Be Curious

What question could you ask?



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Math is... Mindset

What do you want your classmates to know about your math story?

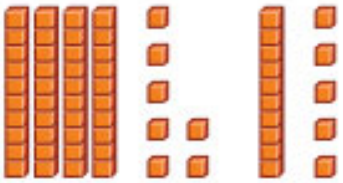
Learn



Macy has 47 pins on her backpack.
She puts 15 pins on the pocket.

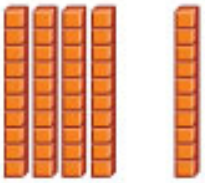
How many pins does Macy have on her backpack?

47 + 15 = ?



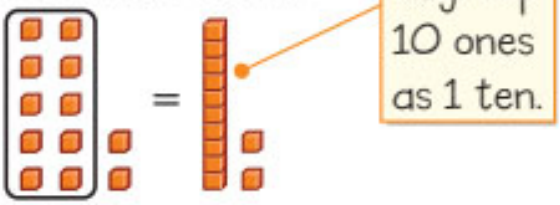
47 15

Add the tens.



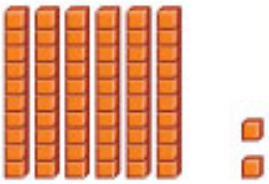
40 + 10 = 50

Add the ones.



7 + 5 = 12

Add the tens and ones.



60 + 2

47 + 15 = 62

When you add, sometimes you regroup 10 ones as 1 ten. Then you add the tens and ones.

Math is... Explaining

When do you regroup ones as tens?

Work Together

What is the sum?

28 + 54 = 82

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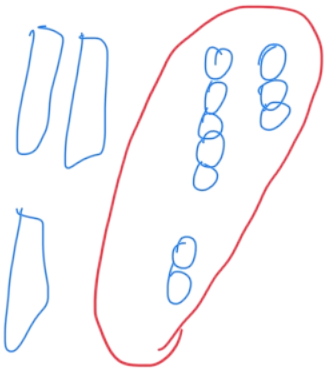
On My Own

MATH REPLAY | GO ONLINE

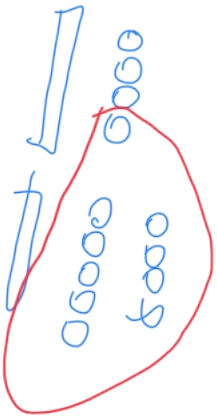
Name _____

What is the sum? Draw tens and ones to show your thinking.

1. 28 + 12 = 40

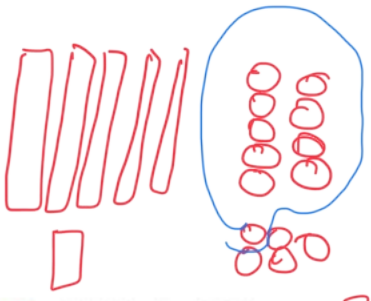


2. 14 + 19 = 33

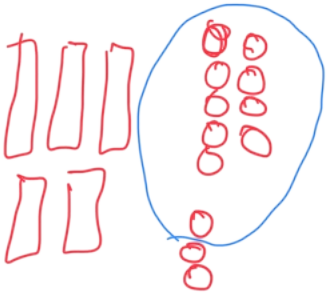


What is the sum?

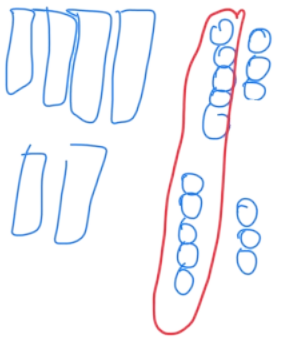
3. 15 + 59 = 74



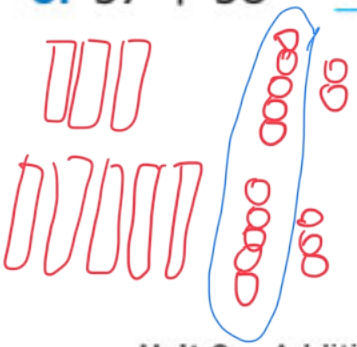
4. 39 + 23 = 62



5. 48 + 28 = 76



6. 37 + 58 = 95



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7. **STEM Connection** Jordan feeds the horses for 25 minutes. He brushes the horses for 49 minutes. How many minutes does Jordan stay with the horses?



25 + 49

74 minutes

8. **Extend Your Thinking** How do you know when to regroup when you add 2-digit numbers?

Reflect

How can you add 2-digit numbers with regrouping?

1) Add the tens
2) Add the ones (Regroup 10 ones as 1 ten)
3) Add the tens and ones

Math is... Mindset

What did you tell your classmates about your math story?

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Unit Review

Name _____

Vocabulary Review

Use the vocabulary to complete each sentence.

2-digit number	digit
ones	open number line
regroup	tens

1. A digit is a symbol used to write numbers.

2. You can regroup 10 ones as 1 ten.

3. This is an open numbre line.



4. The number 54 has 4 ones.

5. A number with 2 digits is called a 2-digit numbre.

6. The number 38 has 3 tens.

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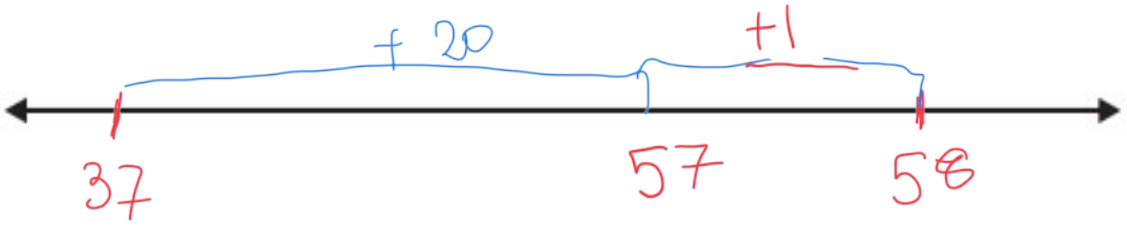
Review

7. What is the sum? Show your thinking on the number line.

$37 + 21 =$ 58

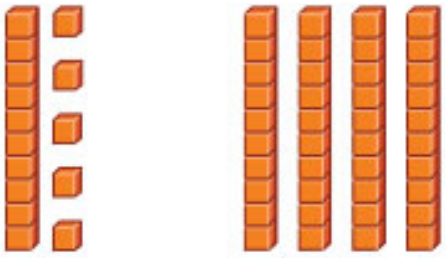


8. What is the sum?

$24 + 10 =$ 34

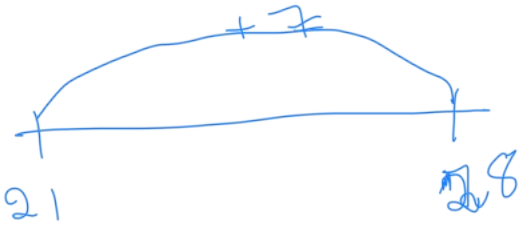
9. What is the sum?

$15 + 40 =$ 55



10. What is the sum? Draw to show your thinking.

$21 + 7 =$ 28



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11. What is the sum of 21 + 34? Choose the correct answer.

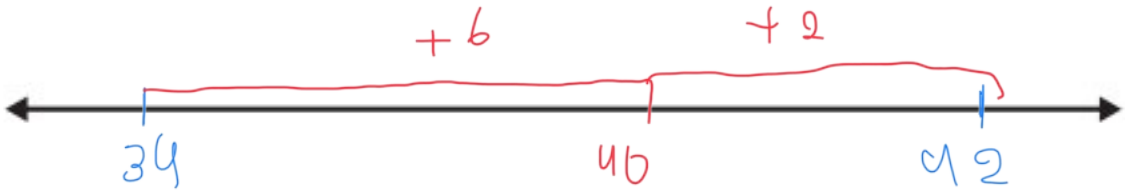
A. 50

B. 51

C. 55

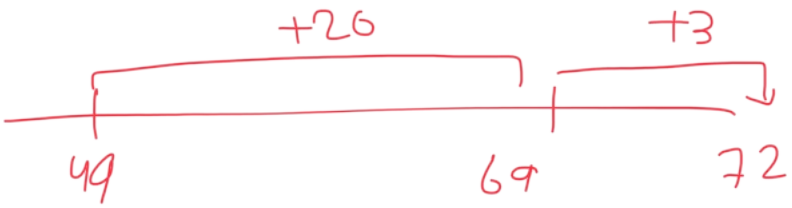
12. What is the sum? Show your thinking on the number line.

34 + 8 = 42



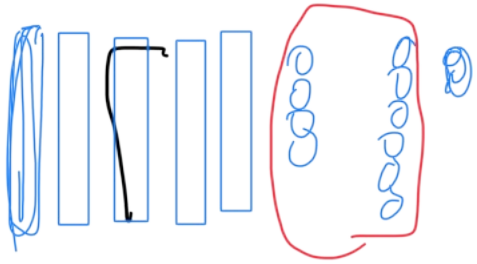
13. What is the sum? Draw to show your thinking.

23 + 49 = 72



14. What is the sum? Draw to show regrouping.

54 + 7 = 61



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Performance Task

Paramedics help many people every day.

Part A: They help 22 people Monday and 37 people Tuesday. How many people do they help on the two days? 22 + 37

59 people

Part B: On Wednesday they help 16 people before lunch. They help 9 people after lunch. How many people do they help on Wednesday? 16 + 9

25 people

Part C: They help 34 people Thursday. They help 48 people Friday. How many people do they help on the two days? 34 + 48

82 people

Reflect

What are some ways to add 2-digit numbers?

regroup to add

open number line

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Unit 9

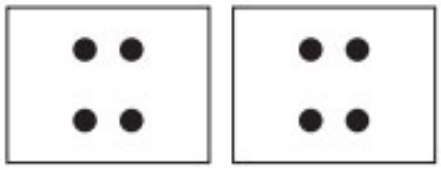
Fluency Practice

Name _____

Fluency Strategy

You can use doubles to add.

$4 + 4 = ?$



Count the dots. There are 8.

So, $4 + 4 = 8$.

1. How can you use doubles to add 2 + 2? Draw dots and explain.

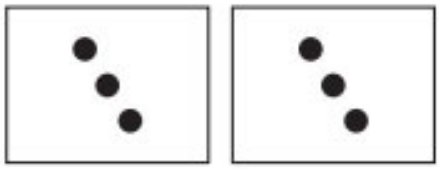
count the dots

 = 2+2 = 4

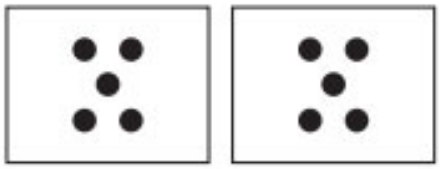
Fluency Flash

What is the sum? Write the number.

2. $3 + 3 =$ 6



3. $5 + 5 =$ 10



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Fluency Check

What is the sum or difference? Write the number.

4. $8 - 0 =$ 8
5. $1 + 1 =$ 2
6. $2 + 2 =$ 4
7. $10 - 2 =$ 8
8. $4 + 4 =$ 8
9. $10 - 4 =$ 6
10. $5 + 0 =$ 5
11. $10 - 7 =$ 3
12. $3 + 3 =$ 6
13. $9 - 0 =$ 9

Fluency Talk

How can you use doubles to add 1 + 1?

1+1 = 2 

count the dots

How can you show 5 − 0 = 5? Explain your work.

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Unit 10

Compare Using Addition and Subtraction

Focus Question

How can I compare using addition and subtraction?



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STEM video | GO ONLINE

IGNITE!

Name _____

Three Numbers in Order

A. What are these sums?

$1 + 3 =$ 4 $\qquad 2 + 2 =$ 4

B. Pick three numbers that are in order. List them below.

Numbers: 5 6 7

What is the sum of the least and greatest numbers?

5 + 7 = 12

What is the sum of the middle number added to itself?

6 + 6 = 12

C. Pick three numbers that are 2 apart as you go in order (such as 1, 3, 5). List them below.

Numbers: 2 4 6

What is the sum of the least and greatest numbers?

2 + 6 = 8

What is the sum of the middle number added to itself?

4 + 4 = 8

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Lesson 10-1

Represent and Solve Compare Problems

Be Curious

Tell me everything you can.



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Math is... Mindset

What are some ways you can connect with your classmates?

Learn

Jordan plants 11 flowers.
Chey plants 17 flowers.



How many more flowers does Chey plant than Jordan?

Cubes can show the problem.

Jordan's flowers



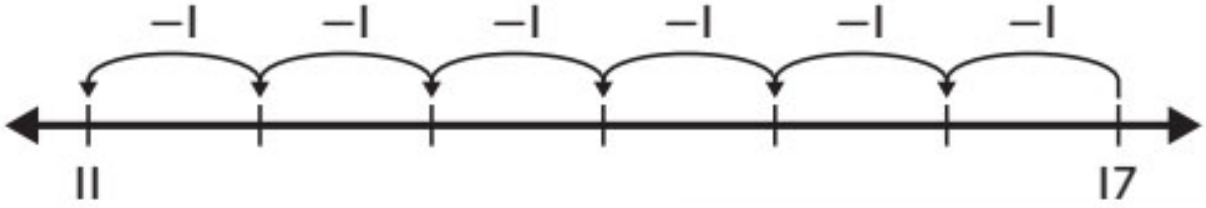
Chey's flowers



more than Jordan

$17 - 11 = ?$

Count back to find how many more.



$17 - 11 = 6$

Chey has 6 more flowers.

Math is... Connections

How can you use addition to solve?

You can subtract to compare numbers.

Work Together

Joy sees 18 bugs. Alex sees 12 bugs. How many fewer bugs does Alex see than Joy? Show your thinking.

6 bugs $18 - 12 = 6$

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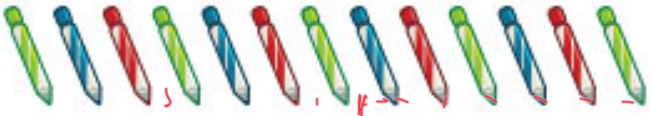
On My Own

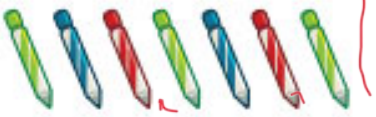
MATH REPLAY | GO ONLINE

Name _____

What equation can show the problem? Use ? for the unknown. Then solve.

1. Roy has 13 markers. Joyce has 7 markers. How many more markers does Roy have than Joyce?

Roy 

Joyce 

Equation:

6 markers

2. Oscar collects 4 leaves. Sammy collects 8 leaves. How many fewer leaves does Oscar collect?

Equation: 8 − 4 = 4

4 leaves

3. Natasha has 11 books. Sheila has 19 books. How many fewer books does Natasha have than Sheila?

Equation: 19 − 11 = 8

8 books

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4. **STEM Connection** A plane holds 18 people. A helicopter holds 15 people. How many more people does the plane hold? 18 - 15

Draw to show your thinking.



3 people

5. **Extend Your Thinking** Make a word problem to compare two numbers. Use the word *fewer*.

Sarah has 25 apples, and John has 12 apples
How many fewer apples does John have
Than Sarah

25 − 12 = 13

Reflect

How can you compare numbers to find the difference?

Subtract the smaller number from the larger number,

Math is... Mindset

How did you connect with your classmates today?

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Lesson 10-2

Represent and Solve Compare Problems Using Addition

Be Curious

What do you notice?
What do you wonder?



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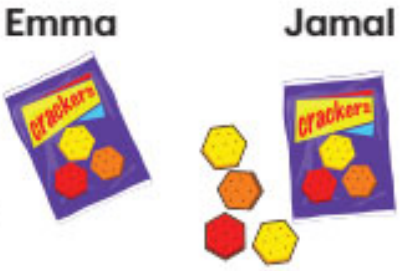
Math is... Mindset

What do you need to be ready to learn?

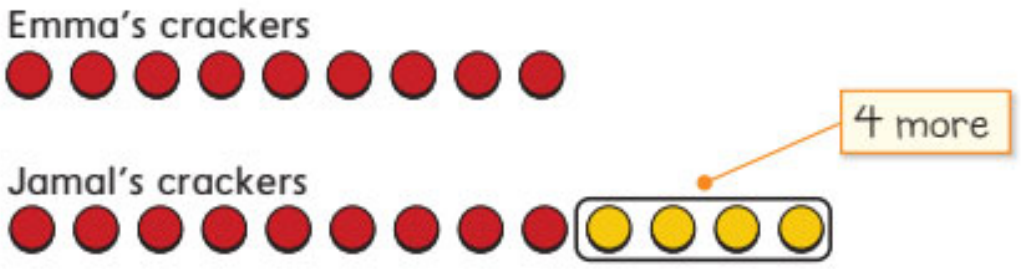
Learn

Jamal has 4 more crackers than Emma. Emma has 9 crackers.

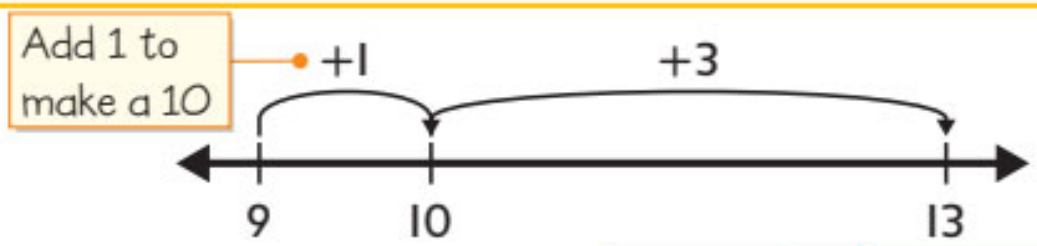


How many crackers does Jamal have?

Counters can show the problem.



$9 + 4 = ?$



$9 + 4 = 13$

Jamal has 13 crackers.

Math is... Choosing Tools

What other tool can you use to solve?

You can add to find how many more.

Work Together

Pete has 6 fewer grapes than Wynn. Pete has 7 grapes. How many grapes does Wynn have? Show your thinking.

13 grapes 6 + 7

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On My Own

MATH REPLAY | GO ONLINE

Name _____

What equation can show the problem? Use ? for the unknown. Then solve.

1. Lin has 3 more books than Malik. Malik has 6 books. How many books does Lin have?



Equation: 6 + 3

9 books

2. Kai has 2 fewer markers than Oscar. Kai has 9 markers. How many markers does Oscar have?

Equation: 9 + 2 = 11

11 markers

3. Maddie's class has 2 fewer computers than Logan's class. Maddie's class has 7 computers. How many computers does Logan's class have?

Equation: 7 + 2

9 computers

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4. Error Analysis There are 3 fewer pennies than dimes. There are 8 pennies. How many dimes?

Alexis writes 8 − 3 = ? to show the number of dimes. Do you agree? Explain.

8 + 3 = 11

5. Extend Your Thinking How can you write a problem to match the picture? Make the greater number unknown.

Olivia 

Grace 

Reflect

How do you solve a compare problem when the greater number is unknown?

Math is... Mindset

What did you do to be ready to learn today?

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Unit 10

Showing Addition and Subtraction

CHERYL TOBEY MATH PROBES

Name _____

1. There are 8 red balloons and 3 blue balloons. How many more red balloons are there than blue balloons?

Circle the equation that shows the problem.

$8 + 3 =$ ____ OR

$8 - 3 =$ 5

Tell or show why.



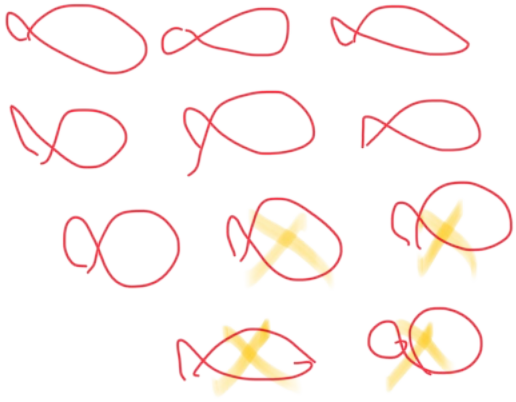
2. Sam has 11 fish in his tank. Sue has 4 fewer fish in her tank. How many fish does Sue have?

Circle the equation that shows the problem.

$11 + 4 =$ ____ OR

$11 - 4 =$ 7

Tell or show why.



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3. There are 7 rabbits in the field. If 5 more rabbits hop into the field, how many rabbits are now in the field?

Circle the equation that shows the problem.

$7 + 5 = \underline{12}$ OR

$7 - 5 = \underline{\quad}$

Tell or show why.



Reflect On Your Learning





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Lesson 10-3

Represent and Solve More Compare Problems

Be Curious

Mia buys more bananas than Carter.

Mia buys some bananas.

How many bananas does Carter buy?

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Math is... Mindset

What helps you understand your classmates' ideas?

Learn

Mia has 2 more bananas than Kenji.
Mia has 7 bananas.



How many bananas does Kenji have?

Cubes can show the problem.

Mia's bananas

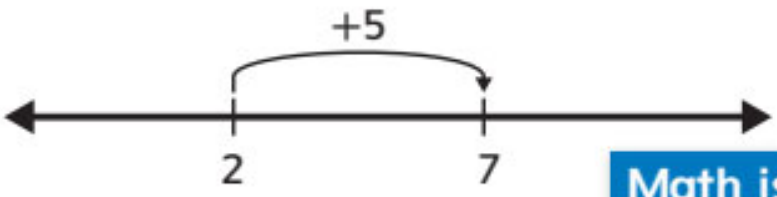


Kenji's bananas



$7 = 2 + ?$

Count on to solve.



$7 = 2 + 5$

Kenji has 5 bananas.

Math is... Connections

What subtraction equation shows the problem?

You can add or subtract to find the lesser number.

Work Together

Owen eats 4 more strawberries than Bella. Owen eats 12 strawberries. How many strawberries does Bella eat?

12 − 4

Show your thinking.

8 strawberries

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On My Own

MATH REPLAY | GO ONLINE

Name _____

What equation can show the problem? Write an equation. Use ? for the unknown. Then solve.

1. Jack has 3 fewer pumpkins than Lily. Lily has 5 pumpkins. How many pumpkins does Jack have?



Equation: 5 − 3 = 2

2 pumpkins

2. Gabby picks 3 fewer peaches than Mason. Mason picks 8 peaches. How many peaches does Gabby pick?

Equation: 8 − 3 = 5

5 peaches

3. Brooklyn eats 2 more carrots than Aubrey. Brooklyn eats 13 carrots. How many does Aubrey eat?

Equation: 13 − 2

11 carrots

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4. **STEM Connection** Ruby gives the cats 6 fewer treats than the dogs. She gives the dogs 16 treats. How many treats does Ruby give the cats?

16 − 6

Draw to show your thinking.



10 treats

5. **Extend Your Thinking** Write or draw problem with an unknown. Then solve.

Reflect

How can you add or subtract to find how many more or how many fewer?

Math is... Mindset

How have you shown that you understand your classmates ideas?

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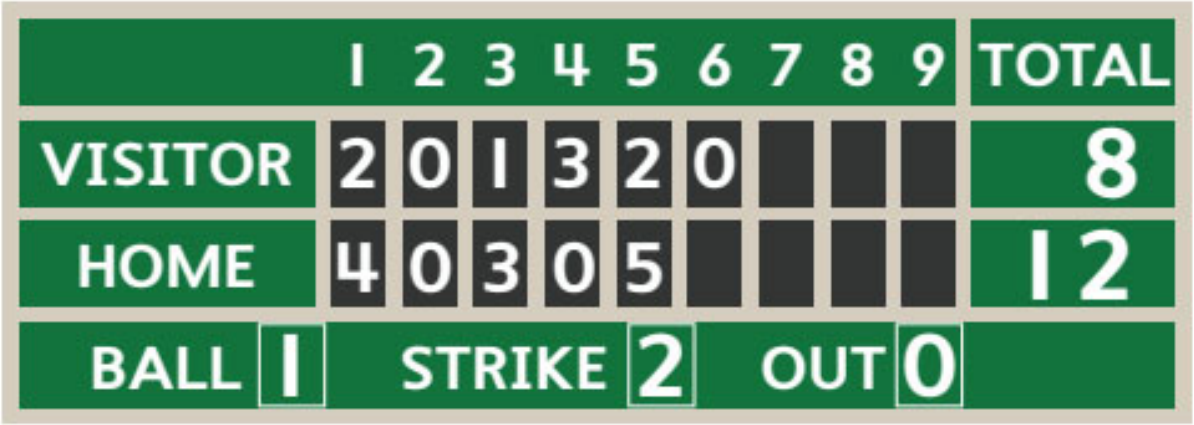
Lesson 10-4

Solve Compare Problems Using Addition and Subtraction

Be Curious

What could the question be?



	1	2	3	4	5	6	7	8	9	TOTAL
VISITOR	2	0	1	3	2	0				8
HOME	4	0	3	0	5					12

BALL 1 STRIKE 2 OUT 0

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Math is... Mindset

What about math makes you feel most confident?

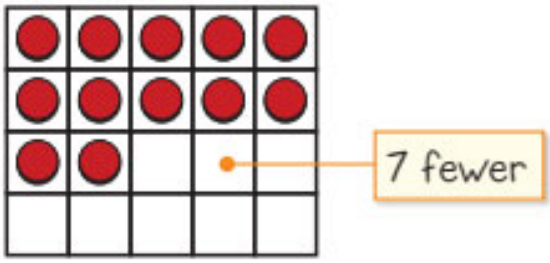
Learn

There are 7 fewer basketballs than baseballs. There are 12 basketballs.

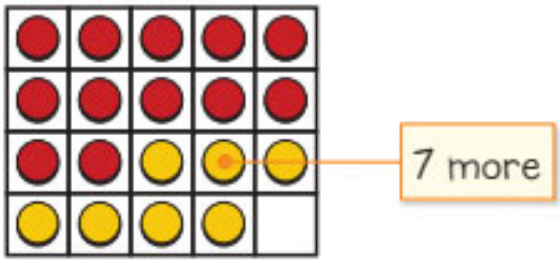
How many baseballs are there?



Basketballs



Baselballs

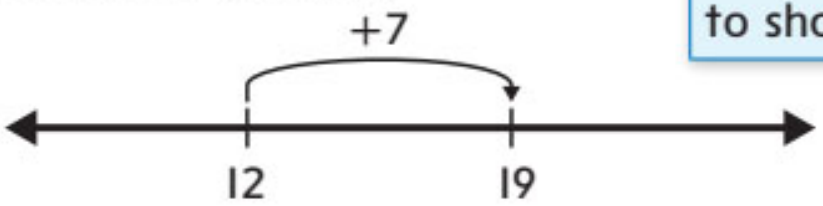


$? = 12 + 7$

Math is... Explaining

How do you know how to show the problem?

Count on to solve.



$\mathbf{19} = 12 + 7$

There are 19 baseballs.

You can add or subtract to find how many more or how many fewer.

Work Together

Kylie stacks 13 blocks. Ella stacks 19 blocks. How many fewer blocks did Kylie stack than Ella?

Show your thinking.

6 blocks

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On My Own

MATH REPLAY | GO ONLINE

Name _____

What equation can show the problem? Write an equation. Use ? for the unknown. Then solve.

1. Sam has 6 more puppets than Laura. Laura has 7 puppets. How many puppets does Sam have?



Equation: 7 + 6 =

13 puppets

2. Jackson has 6 fewer berries than Tammy. Tammy has 16 berries. How many berries does Jackson have?

Equation: 16 − 6

10 berries

3. Ava has 8 stuffed animals. Carston has 14 stuffed animals. How many more stuffed animals does Carston have than Ava?

Equation: 14 − 8 =

6 stuffed animals

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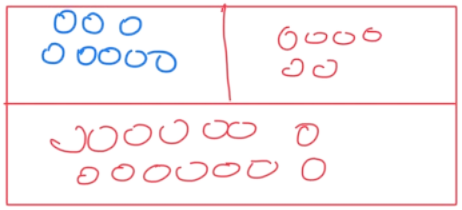
4. **Error Analysis** There are 5 forks and 7 spoons. How many fewer forks are there?

Sandra says there are 12 fewer forks. Do you agree with Sandra? Explain. No, I Don't agree.

7 - 5 = 2

5. **Extend Your Thinking** Write or draw a problem to match the equation ? + 6 = 14. Use the word *more*.



Reflect

How do you know whether to add or subtract to solve a how many more or how many fewer problem?

Math is... Mindset

What helped you feel confident doing math?

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Unit Review

Name _____

Vocabulary Review

Use the vocabulary to complete the sentence.

addend	compare
equation	unknown
problem	

1. You can compare numbers to find the difference.

2. The unknown is a missing number in an equation.

3. Any number being added to another number is an addend.

4. A problem is a question to answer.

5. A number sentence that includes the equal sign is an equation.

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Review

6. Heather has 5 cubes. Amir has 14 cubes. How many fewer cubes does Heather have than Amir? Which equations match the word problem? **Choose all the correct answers.**

Heather 

Amir 

A. $14 - 5 = 9$

B. $5 + 14 = 19$

C. $5 + 9 = 14$

7. Liz buys 5 more apples than oranges. Liz buys 7 oranges. How many apples does Liz buy?

A. 2 apples **B.** 6 apples

C. 9 apples **D.** 12 apples

8. Hector has 3 fewer nails than Gio. Gio has 11 nails. How many nails does Hector have? Make an equation to show the problem. Use ? for the unknown. Then solve.

11 - 3

Equation:

8 nails

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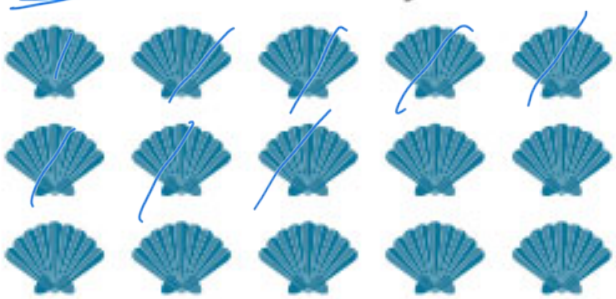
9. Luke finds 8 more shells than Flora. Luke finds 15 shells. How many shells does Flora find?



15 − 8

7 shells

10. Jodi sees 16 leaves. Keith sees 12 leaves. How many fewer leaves does Keith see than Jodi?

4 leaves

11. Mack plants 14 trees. Cindy plants 19 trees. How many more trees does Cindy plant than Mack? Draw to show your thinking.

5 trees

12. Sam has 5 fewer rings than Alyssa. Sam has 8 rings. How many rings does Alyssa have? Make an equation to show the problem. Use ? for the unknown. Then solve.

8 + 5

Equation:

13 rings

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Performance Task

A museum has more pictures of airplanes than pictures of rockets. There are 17 pictures in all.

Part A: How might you show the number of airplane pictures and the number of rocket pictures?

airplanes = 9
rockets = 8

Part B: Could there be 8 pictures of airplanes? Tell how you know. No

because 17 - 8 = 9 rockets
and they tell us the rockets less than airplanes

Part C: 3 more rocket pictures get donated to the museum. There are still more airplane pictures than rocket pictures. How many airplane pictures could there be?

12

Reflect

How can you use addition and subtraction to compare?

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Unit 10

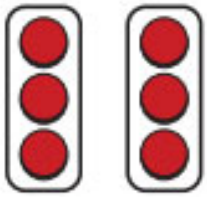
Fluency Practice

Name _____

Fluency Strategy

You can use doubles to subtract.

$6 - 3 = ?$



$3 + 3 = 6$

You know $3 + 3 = 6$.

So, $6 - 3 = 3$.

1. How can you use doubles to subtract $8 - 4$?

$8 - 4$

$4 + 4 = 8$

Fluency Flash

What is the difference? Write a double to help you subtract.

2. $10 - 5 =$ 5

$5 + 5 = 10$

3. $4 - 2 =$ 2

$2 + 2 = 4$

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Fluency Check

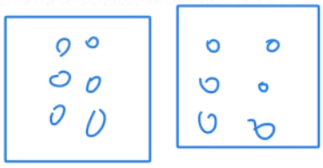
What is the sum or difference? Write the number.

4. $4 + 4 =$ 8
5. $2 + 0 =$ 2
6. $5 + 5 =$ 10
7. $3 + 0 =$ 3
8. $7 - 0 =$ 7
9. $8 - 4 =$ 4
10. $2 - 1 =$ 1
11. $8 - 0 =$ 8
12. $12 - 6 =$ 6
13. $2 + 2 =$ 4

Fluency Talk

How does knowing a doubles fact help you subtract?

How can you show $6 + 6 = 12$? Explain your work.



$6 + 6 = 12$

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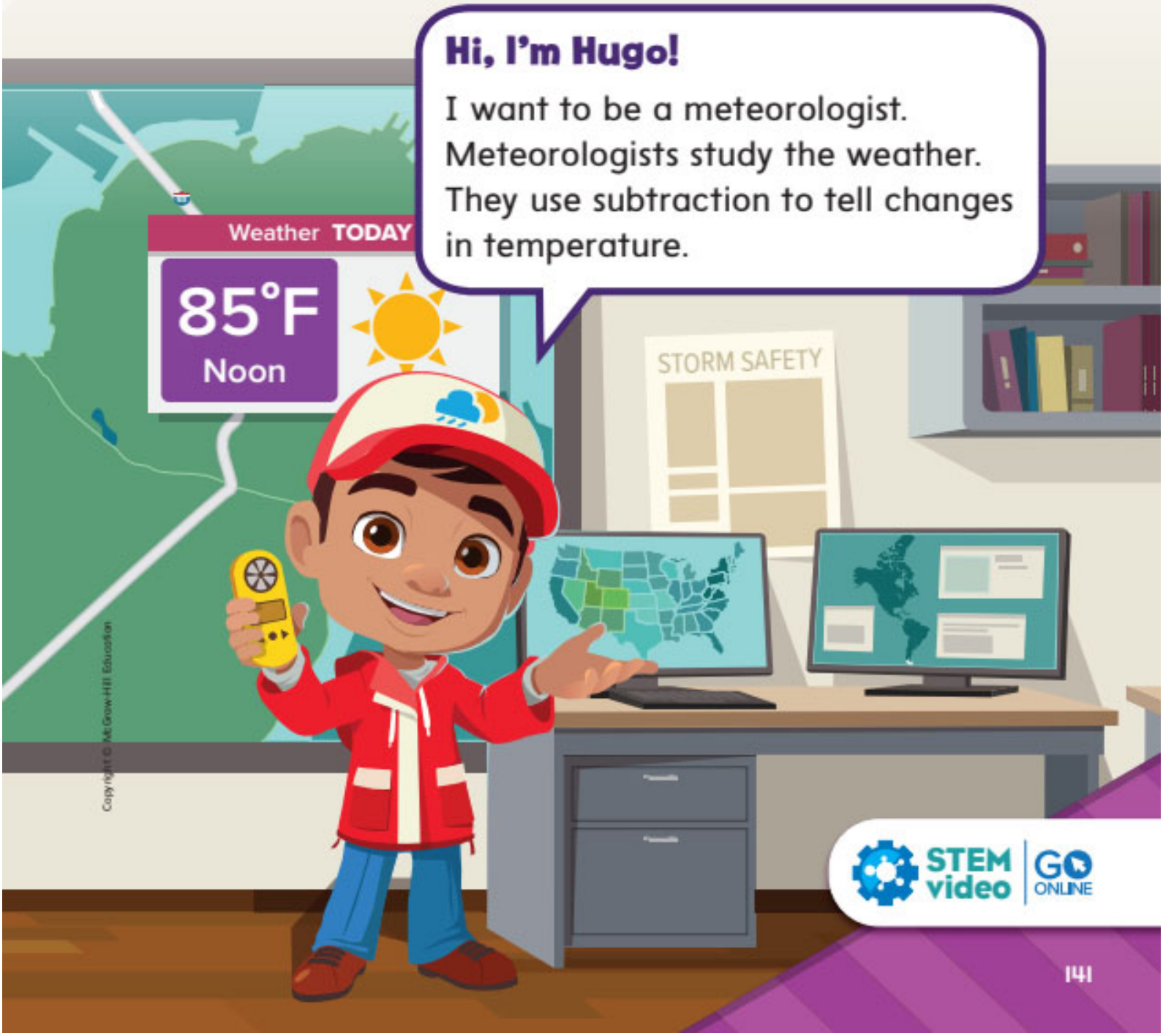
Subtraction within 100

Focus Question

What strategies help you subtract 2-digit numbers?



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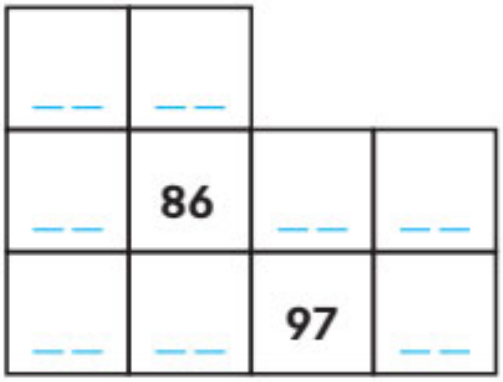
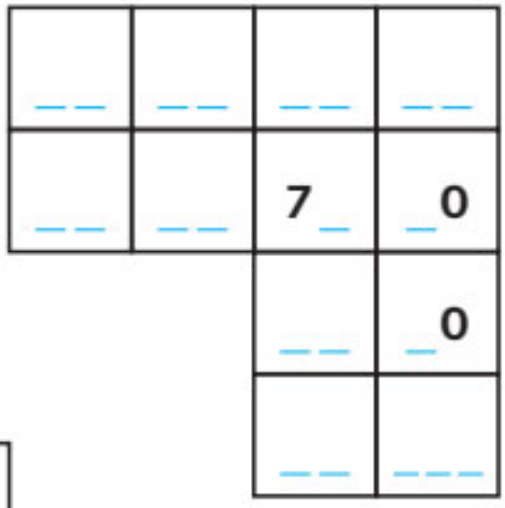
IGNITE!

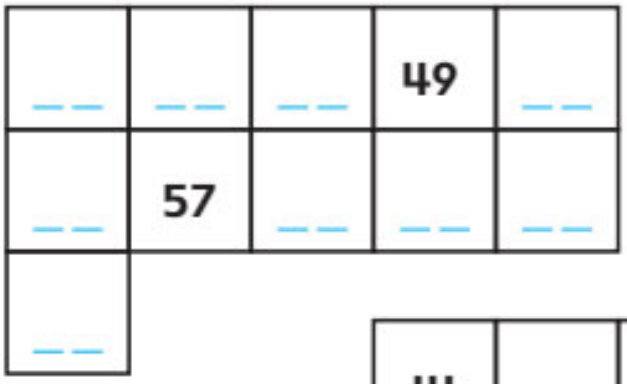
Name _____

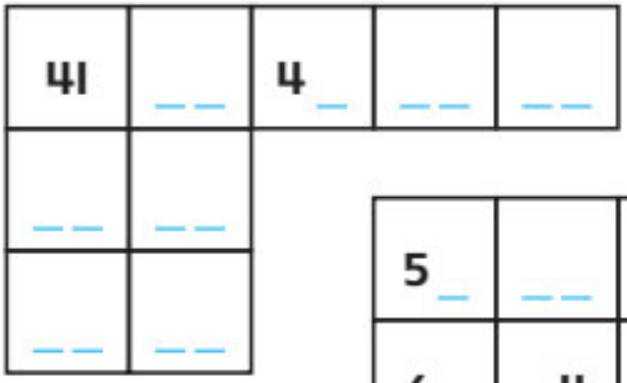
Put It All Together

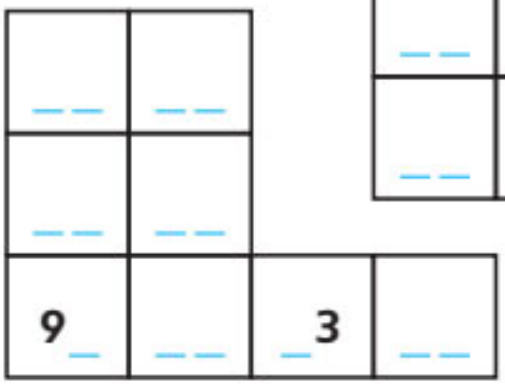
Find the missing numbers.

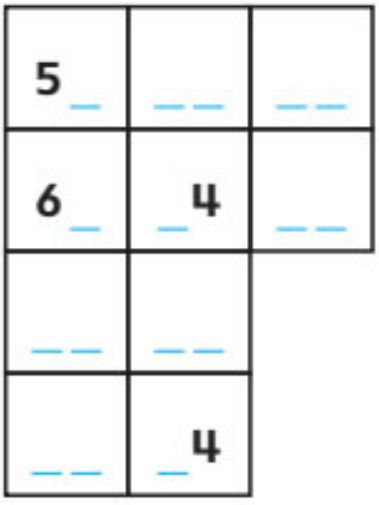












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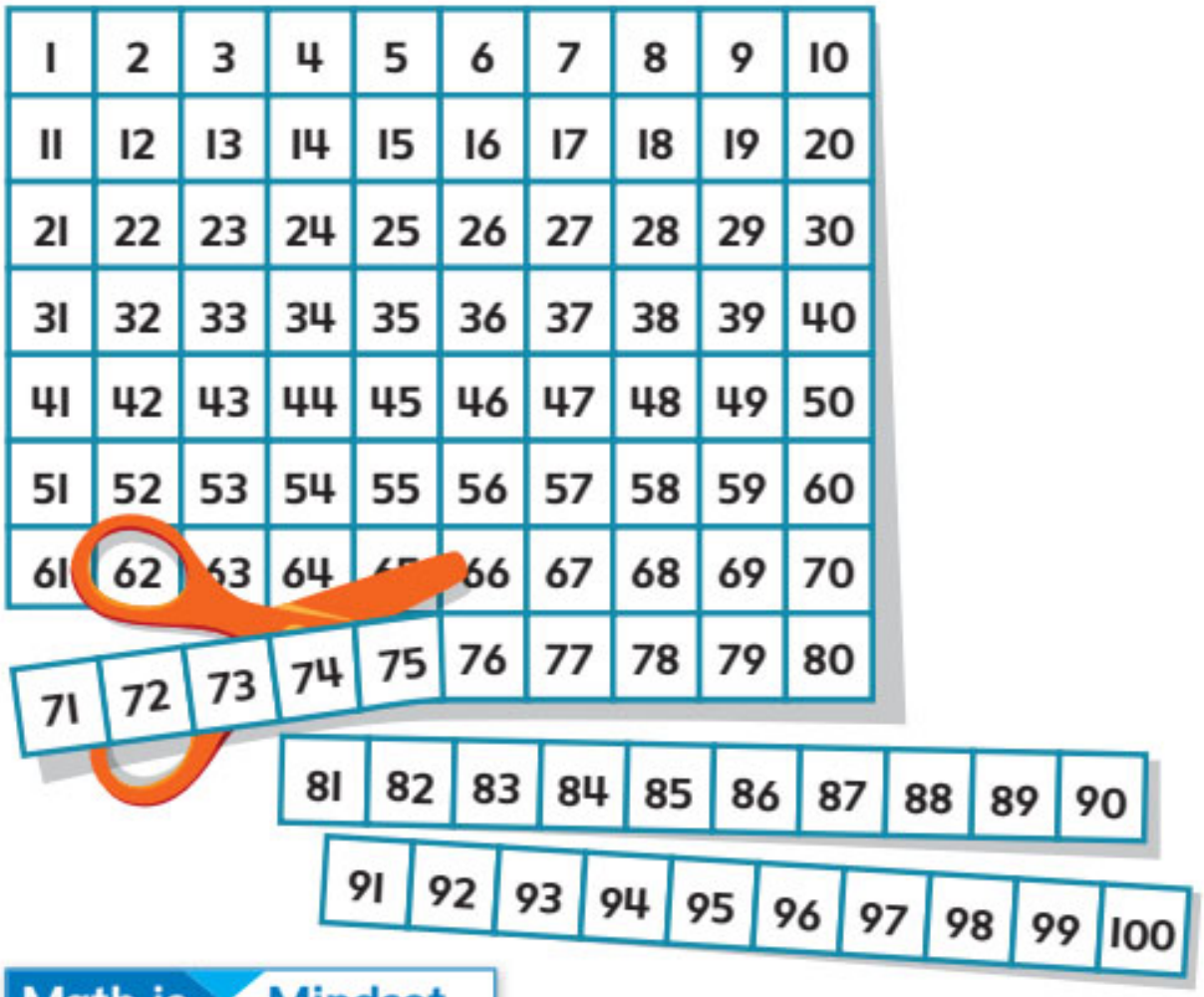
Lesson 11-1

Use Mental Math to Find 10 Less

Be Curious

What do you see?



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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Math is... Mindset

What makes you feel excited in math?

Learn



The bookcase has 73 books.
The librarian takes 10 books.

How many books are there now?

You can use mental math to subtract 10 from a 2-digit number.

$73 - 10 = 63$

$56 - 10 = 46$

$82 - 10 = 72$

Math is... Patterns

What patterns do you see?

When you subtract 10, the tens digit goes down by 1 and the ones digit stays the same.

Work Together

What is $48 - 10$? Explain your thinking.

~~48~~ − ~~10~~ = 38

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Is the equation true? Circle Yes or No.

1. 28 − 10 = 18

   (Yes) No

2. 77 − 10 = 66

   Yes (No)

What is the difference?

3. 56 − 10 = 46

4. 79 − 10 = 69

5. 30 − 10 = 20

6. 64 − 10 = 54

7. 83 − 10 = 73

8. 95 − 10 = 85

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9. Anya has 44 balloons. She gives her friend 10 balloons. How many balloons does Anya have?

34 balloons 44 − 10

10. **Error Analysis** Toby reads 75 pages. Ethan reads 10 fewer pages than Toby. Ethan says he read 64 pages.
Do you agree with Ethan? Explain. 75 − 10 = 65

11. **Extend Your Thinking** How can you use mental math to subtract 45 − 10? 35

Reflect

How can you use mental math to subtract 10?

The tens digit goes down by 1 and the ones digit stays the same

Math is... Mindset
What made you feel excited about math?

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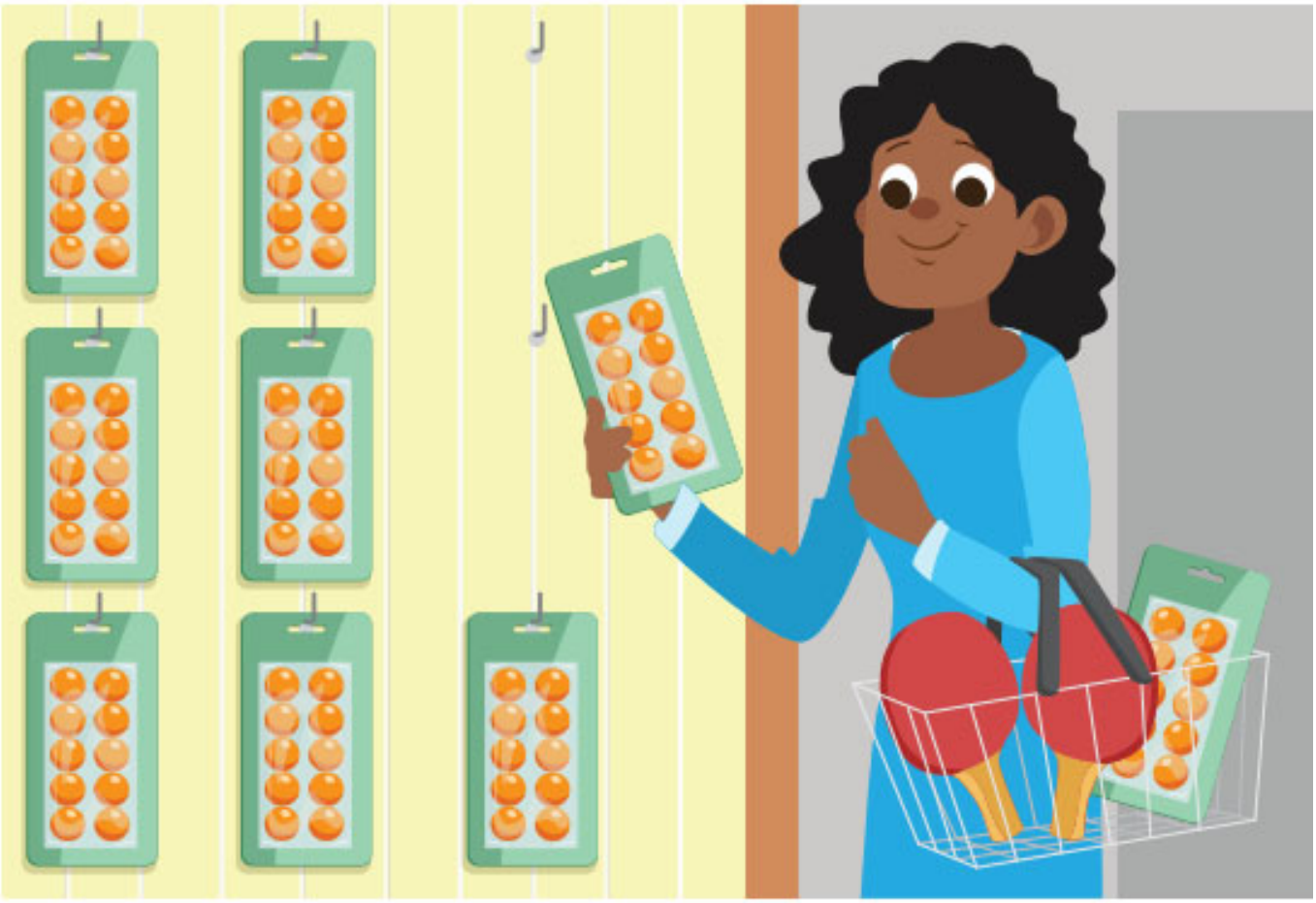
Lesson 11-2

Represent Subtracting Tens

Be Curious

Tell me everything you can.



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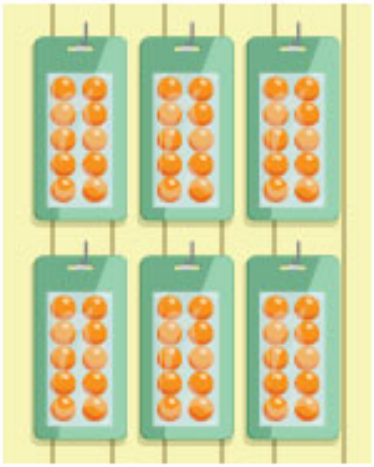
Math is... Mindset

How do you help make everyone feel safe in class?

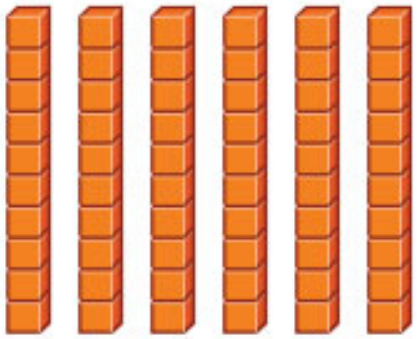
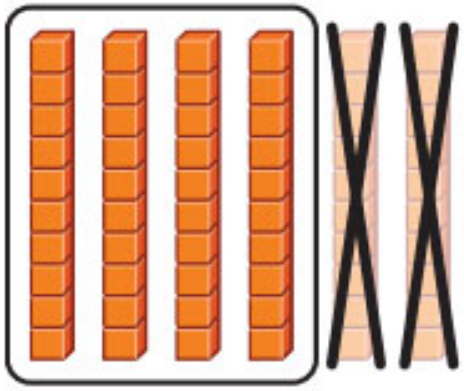
Learn



A store has 60 table tennis balls.
A shopper buys 20 table tennis balls.

How many table tennis balls are left?

$60 - 20 = ?$

Use blocks to show 60.	Cross out 2 tens to subtract 20.
	
6 tens = 60	4 tens remain. $60 - 20 = \mathbf{40}$

You can show subtracting tens with blocks.

Math is... Connections

How can $6 - 2 = 4$ help you subtract $60 - 20$?

Work Together

What is the difference? Show your thinking.

$90 - 40 =$ 50

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On My Own

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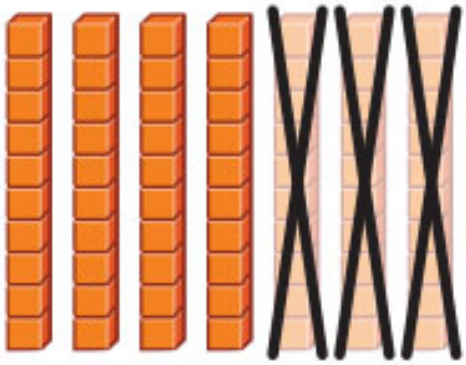
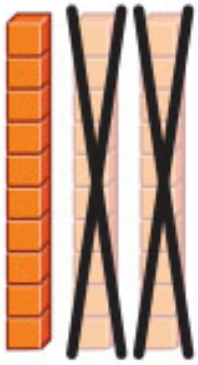
Name _____

What subtraction equation matches the tens blocks? Write the equation.

1. 

$70 - 30 = 40$

2. 

$30 - 20 = 10$

What is the difference? Show your thinking.

3. $50 - 40 = 10$

4. $60 - 30 = 30$

5. $90 - 70 = 20$

6. $80 - 10 = 70$

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7. There are 70 muffins at the bakery. The baker sells 50 muffins. How many muffins are left?

20 muffins 70 − 50

8. **STEM Connection** There were 80 rainy days last year. There were 30 fewer rainy days this year. How many rainy days were there this year? 80 − 30



50 rainy days

9. **Extend Your Thinking** How can you subtract 40 − 10 without using tens blocks? Show or explain your thinking.

40 − 10 = 30



Reflect

How can you show subtracting tens?

You can show subtrating tens with blocks

Math is... Mindset

How did you help everyone feel safe in class?

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Lesson 11-3

Subtract Tens

Be Curious

What do you notice?
What do you wonder?



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Math is... Mindset

How do you understand the thinking that is different from yours?

Learn

How much greater is Dave's number than Amanda's?

Dave	Amanda
80	30

One Way Use a number chart.

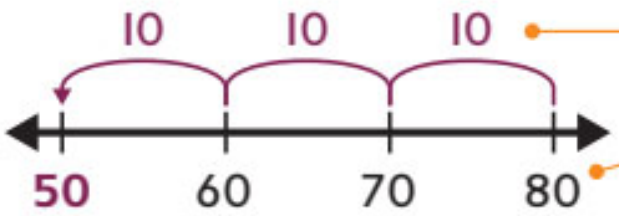
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80

Subtract 30.

Start at 80.

$80 - 30 = \mathbf{50}$

Another Way Use an open number line.



Subtract 30.

Start at 80.

$80 - 30 = \mathbf{50}$

Math is... Structure

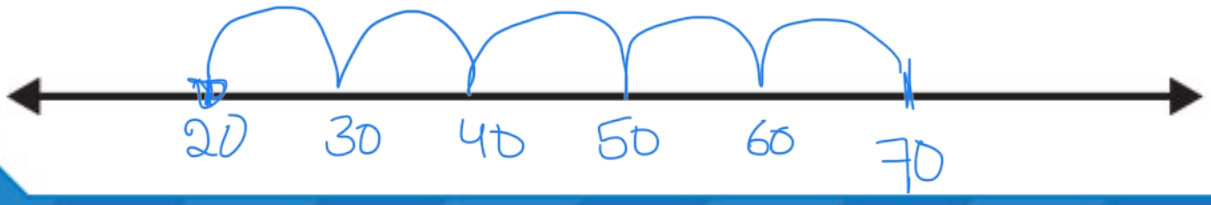
Why can you count back by tens instead of ones?

When you subtract tens from 2-digit numbers, only the digits in the tens place change.

Work Together

What is the difference? Show your thinking.

$70 - 50 =$ 20



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On My Own

MATH REPLAY | GO ONLINE

Name _____

What is the difference? Use the number chart.

1. 80 − 20 = 60

2. 60 − 40 = 20

3. 70 − 10 = 60

4. 70 − 70 = 0

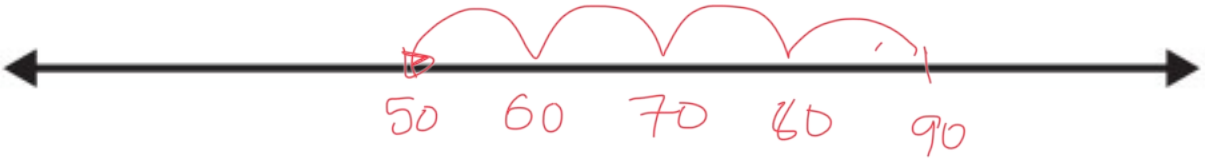
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

What is the difference? Use the open number line.

5. 50 − 20 = 30



6. 90 − 40 = 50



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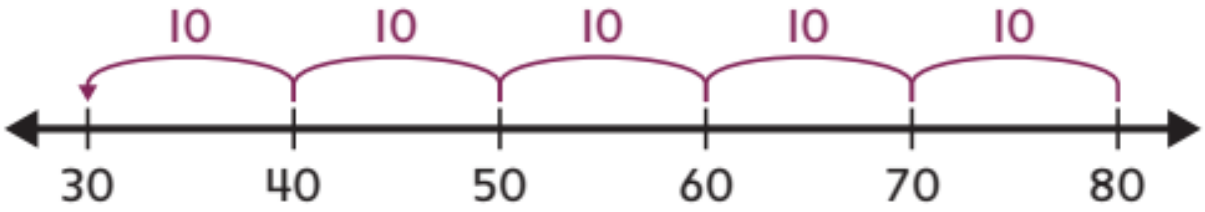
7. T.J. has 40 baseball cards. He gives away 20 cards. How many cards does T.J. have left?

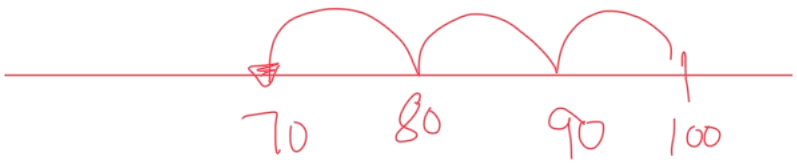
20 baseball cards

8. **Error Analysis** Maya uses an open number line to show 80 − 50.



How do you respond to Maya? 30

9. **Extend Your Thinking** How can you use a number chart or number line to subtract 100 − 30? 70



Reflect

Which tool makes subtracting tens easier for you: a number chart or an open number line? Tell why.

A number chart. It's structured layout makes subtracting tens easier to visualize and perform.

Math is... Mindset

How did the thinking that was different from yours help you?

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Lesson 11-4

Use Addition to Subtract Tens

Be Curious

Which doesn't belong?

$90 - 20 = ?$

$? = 20 + 70$

$70 + ? = 90$

$70 + 20 = ?$

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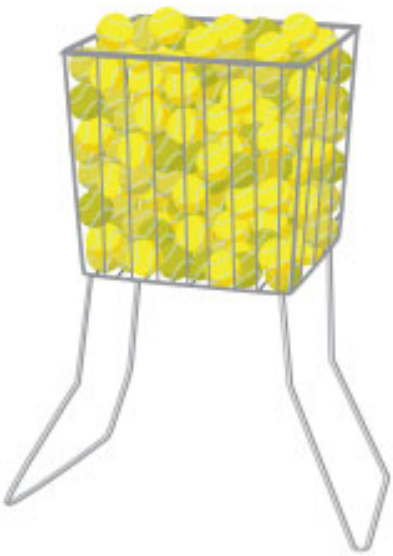
Math is... Mindset

What helps you stay focused on your work?

Learn



90 tennis balls are in a basket.
Briana uses 20 tennis balls to practice.

How many tennis balls are left?

You can use addition to subtract tens.

$90 - 20 = ?$

Make an unknown addend equation. $20 + ? = 90$

Use a known fact. $2 + 7 = 9$

$20 + 70 = 90$, so $90 - 20 = 70$.

Math is... Connections

How are the parts in the two equations related?

You can use addition and known facts to help you subtract tens.

Work Together

How can you add to subtract $50 - 50$? Show your thinking.

$50 + ? = 50$

$50 - 50 = 0$

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On My Own

MATH REPLAY | GO ONLINE

Name _____

What addition equation can you use to help you subtract? Write the equation.

1. 90 − 80 = ?

80 + ? = 90

90 − 80 = 10

2. 60 − 10 = ?

10 + ? = 60

60 − 10 = 50

How can you use addition to find the difference? Show your thinking.

3. 80 − 70 = 10

70 + ? = 80

80 − 70 = 10

4. 50 − 10 = 40

10 + ? = 50

50 − 10 = 40

5. 90 − 60 = 30

60 + ? = 90

90 − 60 = 30

6. 30 − 30 = 0

30 + ? = 30

30 − 30 = 0

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7. Margo buys 70 stamps. She uses 20 stamps. How many stamps does Margo have left?

50 stamps 70 − 20

8. **STEM Connection** Emily reads about planes. She reads 90 minutes on Monday. She reads 30 minutes on Thursday. How many more minutes does Emily read on Monday than Thursday?



60 minutes 90 − 30

9. **Extend Your Thinking** Make a word problem about subtracting tens from tens. Make an addition equation to help you solve it.

Reflect

How can you use addition equations to subtract?

By chaninging subtraction to addition with the opposite sign

Math is... Mindset

What helped you stay focused on your work today?

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Showing Problems with Tens

Name _____

1. Roshni has 43 flowers. She gives 10 flowers to her friend.

   How many flowers does Roshni have left?

   Show the problem using the number chart.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Circle the equation that shows the problem.

43 − 10 = 33 **OR** **43 + 10 =** _____

Tell or show why you chose that equation.

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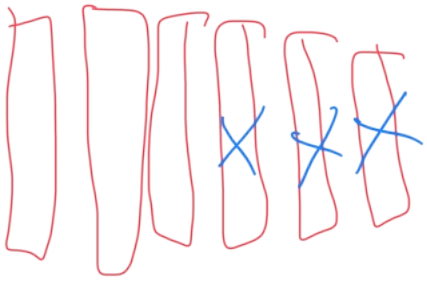
2. Lori has 60 stickers. She has 30 fewer stickers than Cory. How many stickers does Cory have?

Show the problem using tens blocks.



60 − 30 = 30

Circle the equation that shows the problem.

60 − 30 = 30 **OR** **60 + 30 =** _____

Tell or show why you chose that equation.

Reflect On Your Learning





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Lesson 11-5

Explain Subtraction Strategies

Be Curious

What could the question be?



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Math is... Mindset

What do you do to be an active listener?

Learn

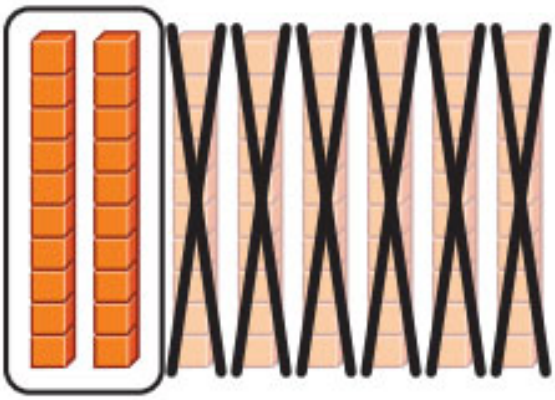
Leah has 80 wax sticks.
Brooks has 60 wax sticks.



How many more wax sticks does Leah have than Brooks?

8 tens − 6 tens = 2 tens

80 − 60 = **20**



60 + **?** = 80

6 + **2** = 8

60 + **20** = 80,

so 80 − 60 = **20**.

Math is... Explaining

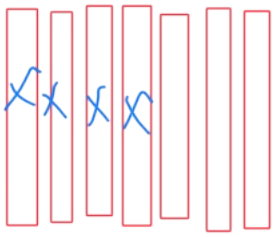
How did you use place value to subtract 80 − 60?

You can use different strategies to subtract tens.

Work Together

How can you subtract 70 − 40? Explain your thinking.

70 − 40 = 30



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On My Own

MATH REPLAY | GO ONLINE

Name _____

Is the equation true? Circle Yes or No. Explain how you know.

1. $10 - 10 = 0$

   Yes No

2. $90 - 50 = 30$

   Yes No

   $90 - 50 = 40$

What is the difference? Explain or show your thinking.

3. $67 - 10 =$ 57

4. $90 - 20 =$ 70

5. $70 - 60 =$ 10

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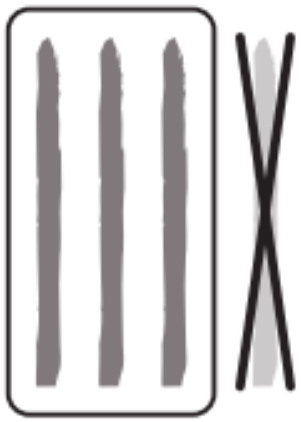
6. A parking lot has 80 cars. Then 80 cars drive away. How many cars are still in the parking lot?

0 cars

80 − 80 = 0

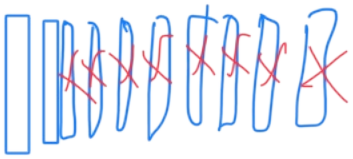
7. **Error Analysis** Yolanda draws to subtract 40 − 20. She says the difference is 30. Do you agree? Explain.



NO

40 − 20 = 20

8. **Extend Your Thinking** How can you subtract 100 − 80?



100 − 80 = 20

Reflect

Which strategy do you find works best for you when subtracting tens from tens? Why?

Math is... Mindset

What helped you be an active listener today?

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Unit Review

Name _____

Vocabulary Review

Use the vocabulary to complete the sentence.

difference	ones
digit	place value
equation	tens

1. A symbol used to write a number is a digit.

2. Every digit in a number has place value.

3. In the subtraction equation $18 - 4 = 14$, 14 is the difference.

4. The number 85 has 8 tens.

5. A number sentence that has an equal sign is an equation.

6. The number 64 has 4 ones.

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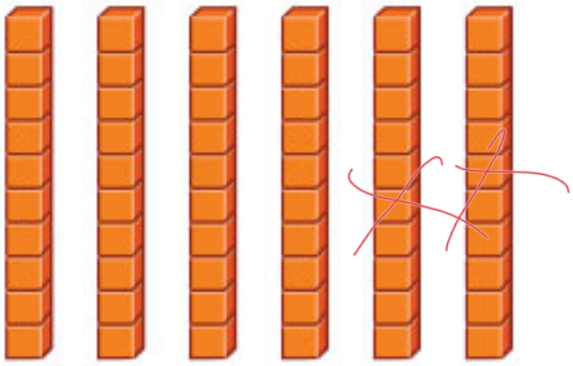
Review

7. A store has 80 watches. It sells 10 watches. How many watches does the store have now?

A. 70 watches
B. 79 watches
C. 81 watches
D. 90 watches

8. Use the tens blocks to subtract.



60 students are on the playground. 20 students leave. How many students stay on the playground?

A. 30 students
B. 40 students
C. 50 students
D. 60 students

9. How can you use addition to find the difference? Write the addition equation.

70 − 30 = 40

? + 30 = 70

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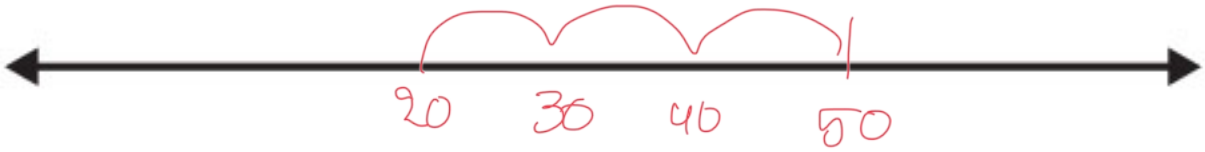
MATH REPLAY | GO ONLINE

10. There are 50 markers in a classroom. 30 markers are black and the rest are blue. How many markers are blue? Use the number line to subtract.



20 blue markers

11. Roderick bakes 70 muffins. He sells 30 muffins. How many muffins does Roderick have left?
Use the number chart.

40 muffins 70 − 30

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

12. How can you subtract 90 − 30?
Show or tell how you subtracted.

90 − 30 = 60

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20 cloudy =

Performance Task

Hugo has been recording the weather. He records 20 more cloudy days than rainy days. He records 10 more sunny days than cloudy days.

Part A: Did Hugo record more sunny days than rainy days? Tell how you know.

Cloudy day $= x + 20$

Sunny day $= (x + 20 + 10) = x + 30$

yes

Part B: If Hugo recorded 50 sunny days, what can you say about the number of cloudy and rainy days Hugo recorded?

Sunny day $\Rightarrow x + 30 = 50$

rainy days $x = 20$

Cloudy days $= x + 20 = 20 + 20 = 40$

Reflect

How did you use different ways to subtract tens?

Number lines.
breaking down numbers.

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Unit II

Fluency Practice

Name _____

Fluency Strategy

You can use doubles to help you add.

$3 + 4 = ?$

What double can I use to add 3 + 4?



$3 + 3 = 6$

Then add 1 more.

So, $3 + 4 = 7$

1. How can you use doubles to add 4 + 6?

4 + 6

4 + 2

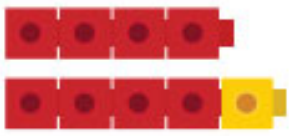
4 + 4 = 8

8 + 2 = 10

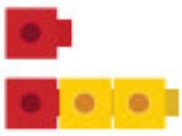
Fluency Flash

What is the sum? Use doubles to help you add.

2. 4 + 5 = 9



3. 1 + 3 = 4



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Fluency Check

What is the sum or difference? Write the number.

4. $2 + 4 =$ 6
5. $2 + 3 =$ 5
6. $3 + 3 =$ 6
7. $1 + 2 =$ 3
8. $10 - 5 =$ 5
9. $2 + 2 =$ 4
10. $8 - 4 =$ 4
11. $2 - 1 =$ 1
12. $1 + 1 =$ 2
13. $4 + 4 =$ 8

Fluency Talk

How can you use doubles to add 3 + 5? Explain your work.

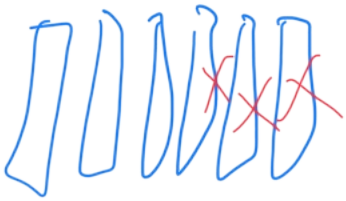
3 + 5

3 + 2

3 + 3 = 6

6 + 2 = 8

How can you show 6 − 3 = 3? Explain your work.



6 − 3 = 3

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Unit 12

Measurement and Data

Focus Question

How can I use tools to measure and interpret data?



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IGNITE!

Name _____

How Long Can You Build It?

Look at the trains. What do you notice?







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Compare and Order Lengths

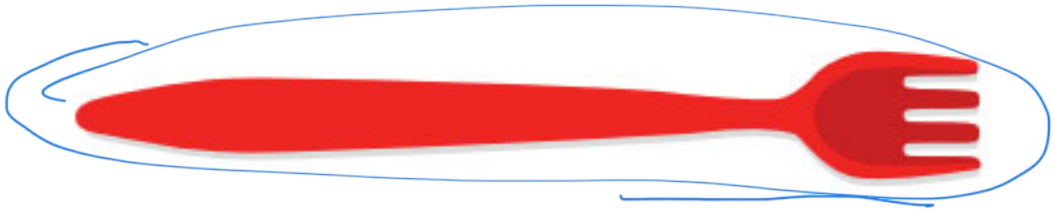
Be Curious

Which doesn't belong?









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Math is... Mindset

What helps you stay focused on your work?

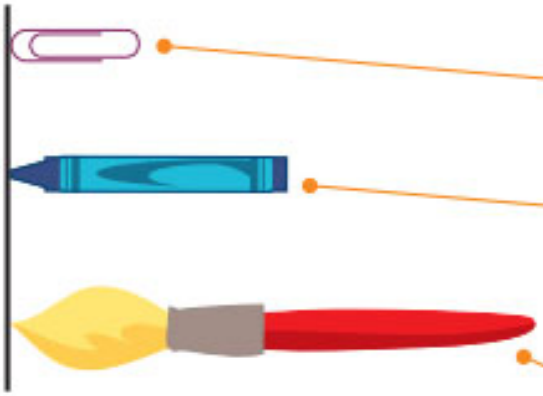
Learn

Declan wants to put these objects in order from shortest to longest.



How can you order these objects?

You line up the ends to compare **lengths** of objects.



The paper clip is **shortest**.

The crayon is **longer** than the paper clip and **shorter** than the paintbrush.

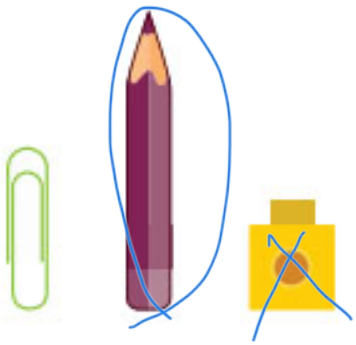
The paintbrush is **longest**.

Math is... Precision

When do we use "longer" and "longest"?

Work Together

Circle the longest object. Put an X on the shortest object.



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On My Own

MATH REPLAY | GO ONLINE

Name _____

1. Which instrument is shorter? Choose the correct answer.

A. 

B. 

Compare and order the objects. Write A, B, or C.



A B C

2. Object 13 is shortest.
3. Object C is longest.
4. Object A is shorter than object C.
5. Object A is longer than object B.

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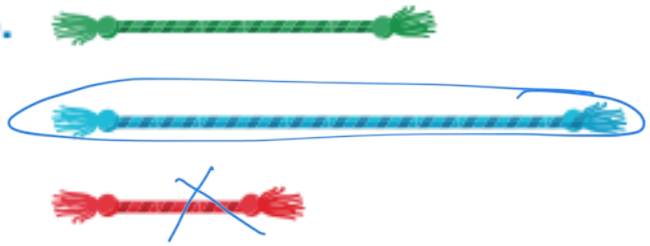
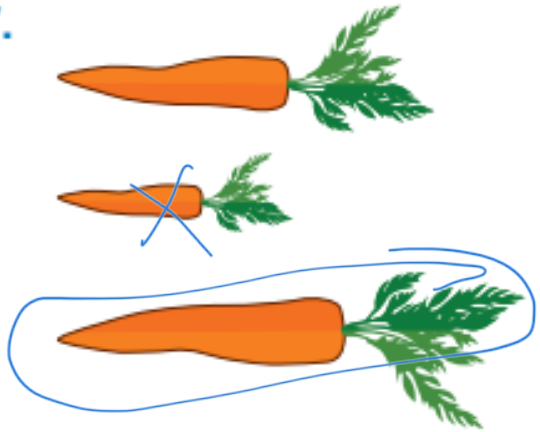
Circle the longest object. Put an X on the shortest object.

6. 

7. 

8. **Extend Your Thinking** Find 4 objects. Order the objects from longest to shortest.

Reflect

How can you compare and order lengths?

You line up the ends to compare lengths of objects

Math is... Mindset

What helped you stay focused on your work today?

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Lesson 12-2

More Ways to Compare Lengths

Be Curious

What question could you ask?



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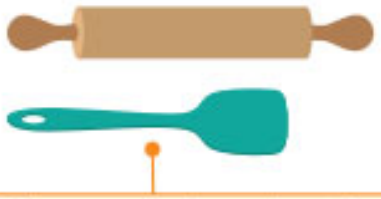
Math is... Mindset

How can your strengths help you learn today?

Learn

How can you use the spatula to compare the spoon and the rolling pin?

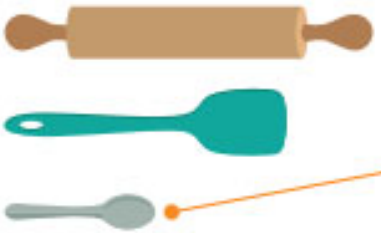




The spatula is shorter than the rolling pin.



The spoon is shorter than the spatula.



So the spoon is also shorter than the rolling pin.

You can compare the lengths of two objects using a third object.

Math is... Explaining

Could you use the rolling pin to compare the spatula and the spoon?

Work Together

Is the pencil shorter or longer than the marker? Explain your thinking.



The pencil is shorter than the marker.

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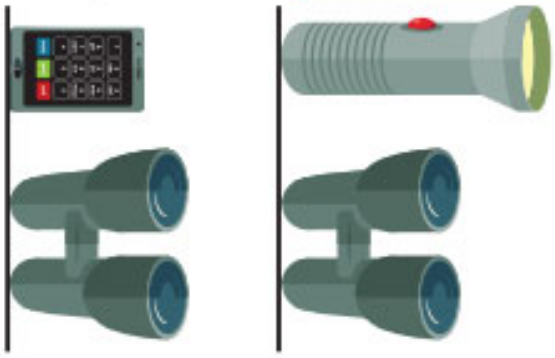
On My Own

MATH REPLAY | GO ONLINE

Name _____

Compare the lengths of two objects using a third object. Write *longer* or *shorter*.

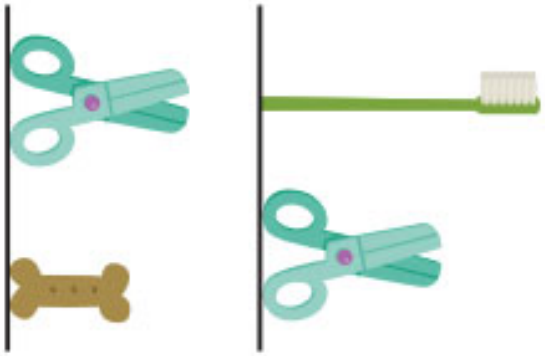
1. The phone is shorter than the flashlight.



2. The shoe is longer than the bell.



3. The dog treat is shorter than the toothbrush.



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4. **STEM Connection** How can Jin use bone B to compare the lengths of bone A and bone C? Explain.



Bone B is longer than bone A

Bone B is shorter than bone C

5. **Extend Your Thinking** Draw 3 lines that are different lengths. Which line can you use to compare the lengths of the other two? Explain.

I can use middel line to compare

line B is longer than line A

line B is shorter than line C



Reflect

How can you use an object to compare the lengths of two other objects?

From use third object as a measuring tool.

Math is... Mindset

How did your strengths help you learn today?

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Strategies to Measure Lengths

Be Curious

What do you notice?
What do you wonder?



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Math is... Mindset

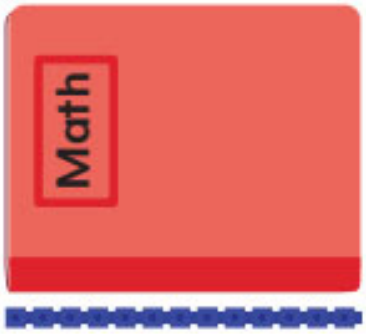
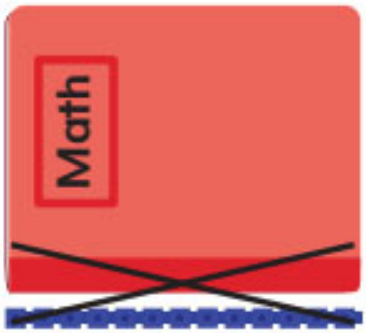
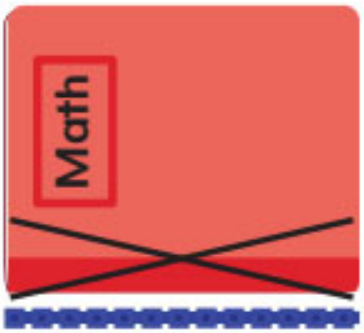
What are your strengths in math?

Learn

How can you tell the length of the book?



You use **units** that are the same size to **measure** length.

Put the units end to end.	No gaps	No overlaps
		

Math is... Thinking

Why do we use units that are the same size?

Work Together

How many paper clips long is the hot dog?



7 paper clips long

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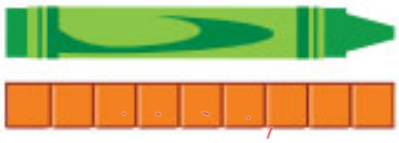
On My Own

MATH REPLAY | GO ONLINE

Name _____

1. How many units long is the crayon?



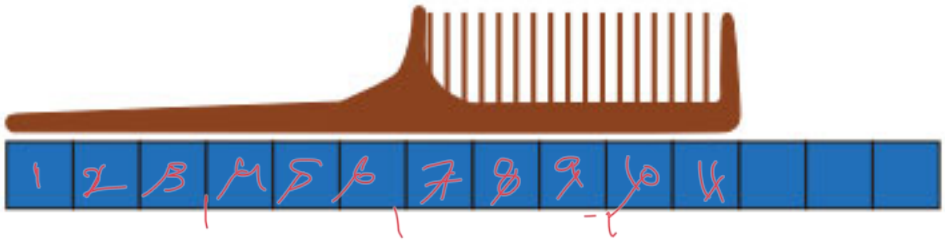
9 units

2. How many nickels long is the pencil?



6 nickels

3. How many blocks long is the comb?



11 blocks

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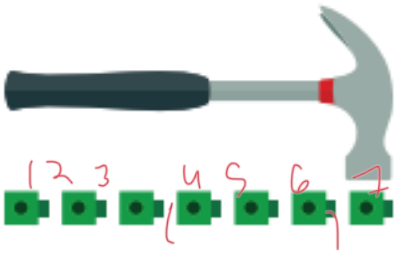
4. **Error Analysis** Lydia says the hammer is 7 connecting cubes long.



Do you agree with Lydia? Explain.

yes I do

5. **Extend Your Thinking** How long is your desk? Choose a unit and measure the length of your desk. Explain how you measured.

My desk is 60 nickels long.

Reflect

How can you measure length using units?

ruler. cubes

Math is... Mindset

How did your strengths in math help you today?

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Unit 12

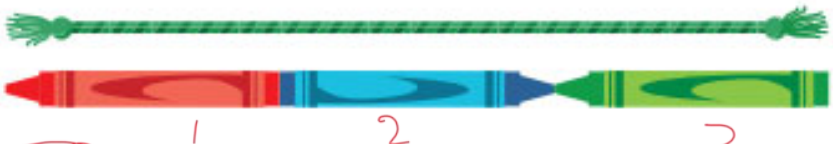
How Long Is the Rope?

CHERYL TOBEY MATH PROBES

Name _____

Circle Yes or No to answer the question.

1. Is the rope 3 crayons long?



Yes No

2. Is the rope 4 paper clips long?



Yes No

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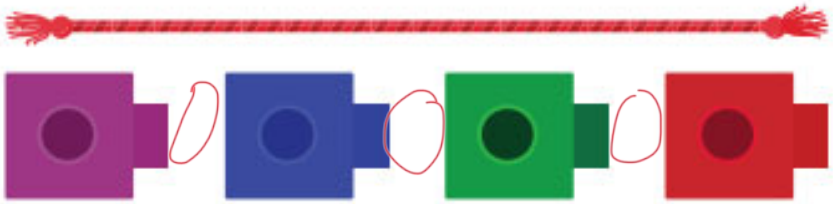
3. Is the rope 4 cubes long?



Yes No

4. Is the rope 3 paper clips long?



Yes No

Reflect On Your Learning





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Lesson 12-4

More Strategies to Measure Lengths

Be Curious

Tell me everything you can.



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Math is... Mindset

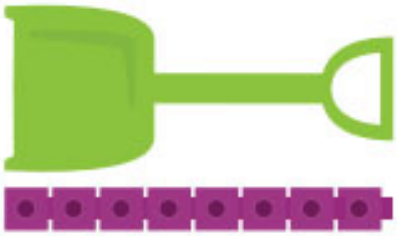
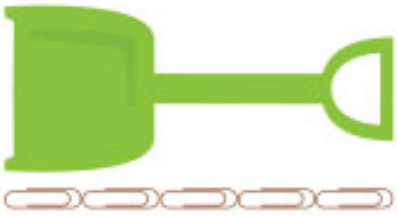
What helps you be ready to learn?

Learn

Yao and Maya measure the shovel.
They use different units.



How will their answers compare?

Yao uses cubes. The shovel is 8 cubes long.	
Maya uses paper clips. The shovel is 5 paper clips long. Their answers are different. They use different units.	

Units of different sizes give different measurements.

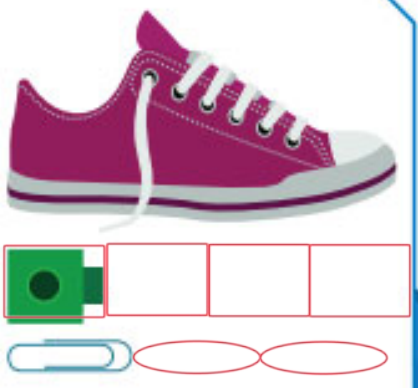
Math is... Connections

Which unit is larger?

Work Together

Will you use more connecting cubes or paper clips to measure the length of the shoe?

3 more cubes.



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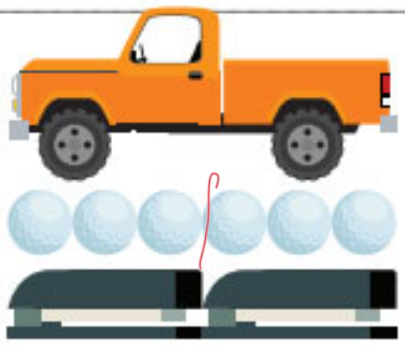
On My Own

MATH REPLAY | GO ONLINE

Name _____

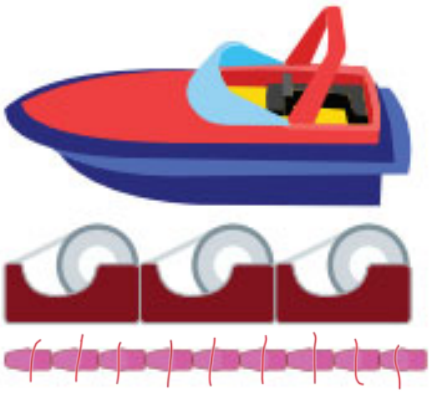
1. How long is the toy truck?



6 golf balls

2 staplers

2. How long is the toy boat?



3 tape holders

9 erasers

How can you use two different units to measure the toothpaste tube?

3. Which unit is smaller?



A. dimes B. squares

4. Will you use *more* or *fewer* dimes than squares to measure the toothpaste?

more dimes than squares

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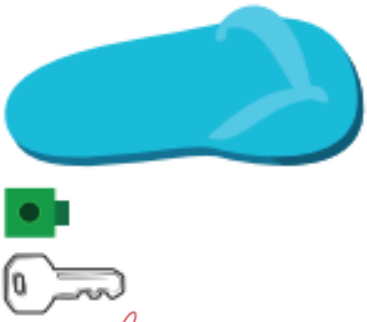
5. Will you use *more* or *fewer* keys than connecting cubes to measure the sandal? Explain.



fewer keys than connecting cubes

6. **Extend Your Thinking** Choose two units to use to measure the length of your book. Which unit will you use more of to measure your book? Explain.

Reflect

How can you know which unit you will use *more* or *fewer* of to measure length?

Units of different sizes give different measurement.

Math is... Mindset

What helped you be ready to learn?

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Tell Time to the Hour

Be Curious

How are they the same?
How are they different?





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Math is... Mindset

How do you show that you respect your classmates?

Learn

How can you tell what time it is?



Math is... Explaining

Why is it important to know how to tell time?

An **analog clock** shows the **hour** and **minutes** with hands.



This clock shows 2 o'clock.

A **digital clock** shows the hour and minutes with numbers.



This clock also shows 2 o'clock.

You can use clocks to tell and write time to the hour.

Work Together

What time is it? Explain how you know.



9 : 00

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On My Own

Name _____

What time is it? Write the time.

1.



6 : 00

2.



11 : 00

3.



8 : 00

4.



1 : 00

5.



5 : 00

6.



12 : 00

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7. **STEM Connection** Deven listens to music at the time on the clock. What time is it?





7 : 00

8. Football practice starts at 3 o'clock. What time does it start?

3 : 00

9. **Extend Your Thinking** How can you show 4:00 on the clock? Draw the hour hand and minute hand.



Reflect

How can you tell time with a clock that has hands?

long hand for minutes
short hand for hours

Math is... Mindset

How did you show respect to your classmates?

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Lesson 12-6

Tell Time to the Half Hour

Be Curious

What do you notice?
What do you wonder?





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Math is... Mindset

What helps you understand how others are feeling?

Learn

What time is it?



Math is... Thinking

Why do you think the hour hand is between 1 and 2?

The hour hand is between 1 and 2, so the hour is 1.

The minute hand points to 6, so the minutes are 30.

The clock shows 1:30 or half past 1.

1 hour is 60 minutes



This clock also shows 1:30 or half past 1.



You can use clocks to tell and write time to the **half hour**.

Work Together

What time is it? Draw the hour and minute hands to show the same time.





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On My Own

MATH REPLAY | GO ONLINE

Name _____

What time is it? Write the time.

1.



11 : 30

2.



4 : 30

3.



2 : 30

4.



5 : 30

5.



7 : 30

6.



10 : 30

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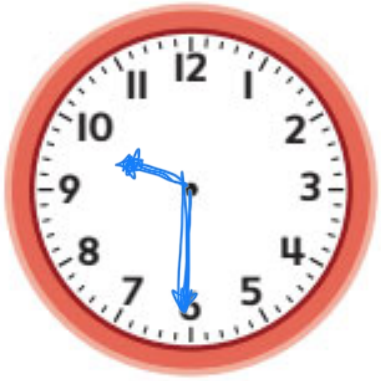
7. **Error Analysis** Sally says the time is 3:30. Steve says the time is half past 3:00. How can they both be correct?



half past 3:00 and 3:30 are same because half past is mean 30 minutes past the hour.

8. **Extend Your Thinking** How can you show half past 9:00? Draw the hour and minute hands.



Reflect

How can you tell time to the half hour?

The minute hand points to 6, so the minutes are 30

Math is... Mindset

What helped you understand how others were feeling?

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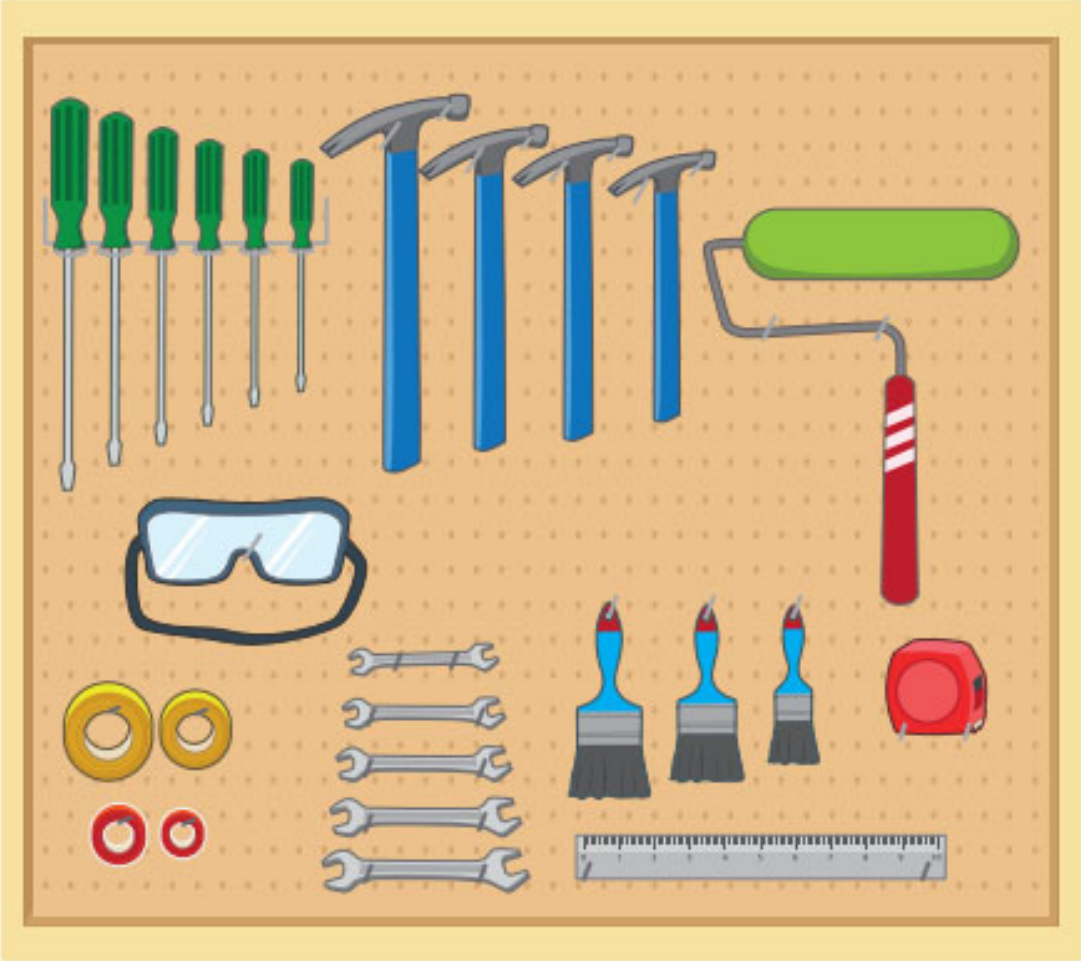
Organize Data

Be Curious

What do you see?



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Math is... Mindset

How do you work well with a partner to complete a task together?

Learn

How can you sort the objects?



You can sort the objects by use.

Tool	Toy	Food



You can sort objects into categories.

Math is... Exploring

What is another way to sort the objects?

Work Together

How can you sort the objects?



money and signs

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On My Own

Name _____

How can you sort the objects? Draw the objects or write their names to complete the chart.



chalk apple trash can pea box pencil

1.

Small	Medium	Large
pea chalk	apple pencil	trash can box

2.

Container	Writing Tool	Food
box trash can.	chalk pencil	apple pea

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3. How can you sort these objects? Complete the chart. Write the category names above the chart.



lime | tennis ball | trumpet | helmet | cherry | drum

Food	musical tool	use for play
lime cherry	trumpet drum	helmet tennis ball

4. **Extend Your Thinking** List 5 objects in your classroom. How can you sort them? Explain.

desk, book, pen, my teacher, me

not alive	alive

Reflect

How can you sort objects into categories?

Size

Math is... Mindset

What helped you work well with a partner to complete a task together?

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Lesson 12-8

Represent Data

Be Curious

What do you notice?
What do you wonder?



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Math is... Mindset

What are some ways you can contribute to your group today?

Learn



Jaime wants to know how many friends choose the butterfly as their favorite bug.
How can he collect his friends' choices?





You can make a table. The table has one row for each choice.

Bug	Tally
	
	
	

Math is... Explaining

Why should you make a tally mark for each bug?

Use I tally mark to show each choice.

Bug	Tally
	𝍸 I
	III
	𝍸

5 tally marks

Jaime can use tally marks to collect his friend's choices.

A tally chart shows how many of each kind of object.

Work Together

How can you show the data in the tally chart? Make tally marks and write numbers to complete the chart.



Sport	Tally	Total
	6	𝍸 I
	5	𝍸
	2	11

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Use the tally chart to answer the questions.

1. How many of each kind of pet do students have? Write the totals in the chart.

2. How many pets are there in all?

18 pets

Pet	Tally	Total
	𝍸	4
	𝍸 |	8
	𝍸	6

Use the data to complete the chart.

3. Students saw some bugs at the park. Make tally marks to complete the chart.



Bug	Tally
	𝍸
	𝍸
	11

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4. **Error Analysis** Jade says 15 students voted for their favorite outdoor toy. Do you agree with Jade? Explain. No

6 + 9 = 10

10 + 9 = 19

Toy	Tally
	𝍸 I
	𝍸 IIII
	IIII

6 + 9 + 4

5. **Extend Your Thinking** When you make a tally chart, how do you know if you recorded all of the data?

every 1 line is 1 object

Reflect

How can you sort data into a tally chart?

A tally chart shows how many of each kind of object

Math is... Mindset

In what ways have you contributed to your group today?

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Interpret Data

Be Curious

How are they the same?
How are they different?

Bug	Tally
	𝍸 |
	|||
	𝍸

Favorite Bug		
Bug	**Tally**	**Total**
	𝍸 |	6
	|||	3
	𝍸 |||	8

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Math is... Mindset

What helps you make sense of a situation?

Learn

Michael makes a chart to show his friends' favorite colors.

Color	Tally
blue	𝍸
green	𝍸 |
orange	|||

How many friends does Michael ask?

You can use a **tally chart** to organize the **data**.

You can write the totals for each color.

Color	Tally	Total
	𝍸	5
	𝍸 |	6
	|||	3

You can add the totals to know how many friends Michael asks.

$5 + 6 + 3 = ?$

$11 + 3 = 14$

Michael asks 14 friends.

Math is... Connections

What other questions can you ask about the data?

Work Together

How many of each toy does Sarah have?

Sarah's Toy	Tally	Total
	||	2
	||||	4
	𝍸	5

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Students pick what they want to see at the museum. Use the tally chart to answer the questions.

Attraction	Tally
	𝍸
	𝍸 ||
	𝍸

1. How many students want to see the eagle?

   5 students

2. How many students want to see the insect?

   4 students

3. How many students want to see the dinosaur?

   7 students

4. How many students chose to see an attraction?

   16 students

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Use the tally chart to answer the questions.

Weather	Tally	
	𝍸 I	6
	III	3
	II	2

5. **STEM Connection** Hugo asks some friends to pick their favorite weather. How many friends pick sunny weather?



6 friends

6. **Extend Your Thinking** How many friends in all pick their favorite weather? Explain how you know.

11 friends

Reflect

How can you use tally charts to answer questions?

By counting the tally marks corresponding to the specific data point in question.

Math is... Mindset

What helped you make sense of a situation?

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Solve Problems Involving Data

Be Curious

Students pick their favorite instrument.

Some pick drums. Some pick piano.
Some pick trumpet.

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Math is... Mindset

How do deep breaths help you work better?

Learn

Annisa asks students to choose their favorite instrument from drums, trumpet, and piano.

How many more students choose drums than trumpet?

Instrument	Tally
	𝍸 𝍸 |||
	𝍸 𝍸
	𝍸 𝍸 |

8 students choose drums.

8 tally marks



6 students choose trumpet.

6 tally marks



$8 - 6 = 2$

2 more students choose drums than trumpet.

Math is... Exploring

What other questions can you ask about the data?

You can use a tally chart to answer questions about *how many more* and *how many less*.

Work Together

How many zebras and lions are at the zoo?

5 zebras and lions

Zoo Animals	Tally
Zebra 	𝍸 ||| 3
Elephant 	𝍸
Lion 	|| 2

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Use the tally chart to answer the questions.

Favorite Toy	Tally
Soccer ball 	𝍸 I
Bike 	𝍸 IIII
Doll 	𝍸 II

1. Which toy did the most students choose?

   Bike

2. Which toy did the fewest students choose?

   Soccer ball

3. How many more students chose bike than doll?

   2 students

4. How many fewer students chose soccer ball than bike?

   3 students

5. How many students chose a favorite toy?

   22 students

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Use the tally chart to answer the questions.

Type of Mug	Tally
Stripes 	𝍸 ||
Dots 	𝍸 | ||
Plain 	𝍸 |

6. How many more mugs have stripes than dots?

   2 mugs

7. How many mugs are there in all?

   17 mugs

8. **Extend Your Thinking** To have more mugs with dots than stripes, how many more dot mugs should there be? Explain your thinking.

   3 mugs

Reflect

How can you use a tally chart to answer questions?

Math is... Mindset

How has deep breathing helped you work better?

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Unit Review

Name _____

Vocabulary Review

Match the name with the picture. Write the letter on the line.

1. analog clock E

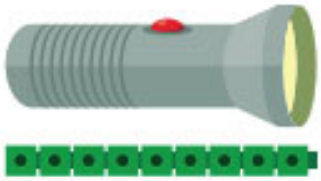
2. digital clock C

3. measure A

4. tally chart D

5. tally marks B

A.



B.



C.



D.

Sports We Play	Tally
	𝍸
	𝍸 I
	II

E.



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Review

6. Which animal sits on the shortest shelf?



A. bear

B. owl

C. penguin

7. Complete the sentence with "longer" or "shorter" to make the sentence true.



The ribbon with dots is longer than the plain ribbon.

8. Which clock shows half past 4:00? Choose all the correct answers.

A.



B.



C.



D.



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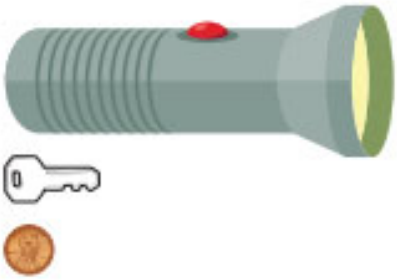
9. Look at the tally chart. How many more ants did they see than bees?

Insects We Saw	Tally
	𝍸 ||||
	𝍸
	|||

4 more ants than bees

10. Jay measures the length of a flashlight using keys and pennies. Will he use more keys or fewer keys than pennies to measure the flashlight? Write *more*, *fewer*, *larger*, or *smaller* to make the sentence true.



He will use fewer keys to measure the length of the flashlight because keys are a larger unit.

11. How can you sort these objects? Write two or more categories.



Living and non living

Food and non food

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Performance Task

Some sound engineers pick their favorite headphones.



Part A: How many pick each type of headphones? Make tally marks. Write the totals in the tally chart. 13

Favorite Headphones		
Type	Tally	Total
	1111	4
	111111	6
	111	3

Part B: More sound engineers picked their favorite headphones. How would the data change? Explain.

make more tally marks and the totals in the tally chart be more then 13

Reflect

How can you use tools to measure and to answer questions about data?

answer questions about data depending on the data type and research question.

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Unit 12

Fluency Practice

Name _____

Fluency Strategy

You can use doubles to help you subtract.

$9 - 4 = ?$

What double can I use to subtract $9 - 4$?

I know $4 + 4 = 8$, so I know $8 - 4 = 4$.

9 is 1 more than 8.

Add 1 to the difference in $8 - 4 = 4$.

So, $9 - 4 = 5$

1. How can you use doubles to subtract $8 - 3$?

Fluency Flash

What is the difference? Use doubles to help you subtract.

2. $7 - 4$

I know 4 + 4 = 8.

So, I know 8 − 4 = 4.

7 is 1 less than 8.

Subtract 1 from the difference.

So, 7 − 4 = 3.

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Fluency Check

What is the sum or difference? Write the number.

3. $9 - 5 =$ 4
4. $3 + 5 =$ 8
5. $4 + 6 =$ 10
6. $7 - 3 =$ 4
7. $6 - 2 =$ 4
8. $4 - 2 =$ 2
9. $8 - 4 =$ 2
10. $6 - 4 =$ 2
11. $6 - 3 =$ 3
12. $4 + 5 =$ 9
13. $2 + 3 =$ 5
14. $8 - 5 =$ 3

Fluency Talk

How can you use doubles to subtract $5 - 3$?

I know $3+3=6$
so, I know $6-3=3$
5 is 1 less than 6
subtract 1 from the difference
so $5-3=2$

How can you show $4 + 5 = 9$?

$4 + 5$
$4 \quad 1$
$4+4=8$
$8+1=9$

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Equal Shares

Focus Question

What are equal shares?



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IGNITE!

Name _____

Cutting Squares in Half

Look at each picture. Choose one that is different from the others.

Picture A



Picture B



Picture C



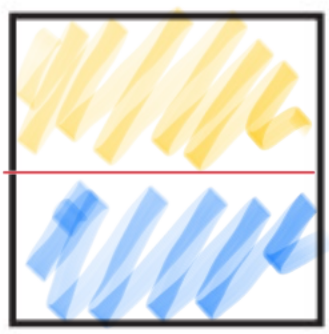
Picture D



Shade 1 half of each square in one color. Shade 1 half in another color. Shade the squares different ways.







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Lesson 13-1

Understand Equal Shares

Be Curious

Tell me everything you can.



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Math is... Mindset

What do you do well in math? In reading?

Learn



Kevin says the window in his room has 2 equal parts.

How can you tell if the 2 parts are equal?

These shapes have **equal shares**.

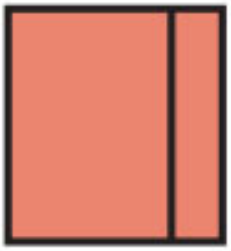




Math is... Modeling

What is another way to show a rectangle with equal squares?

These shapes do not have equal shares.





A **whole** has equal shares when the parts are the same size.

Work Together

Which square has equal shares? Circle the square. Explain your thinking.





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On My Own

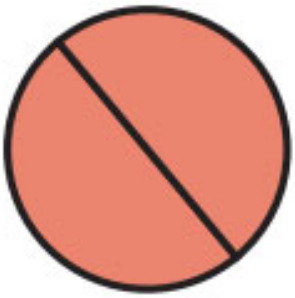
MATH REPLAY | GO ONLINE

Name _____

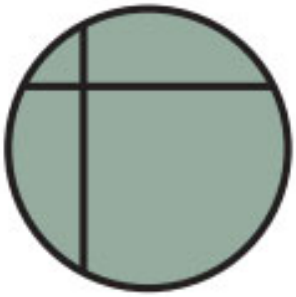
Does the shape have equal shares? Circle Yes or No.

1. 

Yes No

2. 

Yes No

3. 

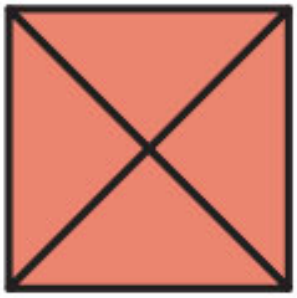
Yes No

4. 

Yes No

5. 

Yes No

6. 

Yes No

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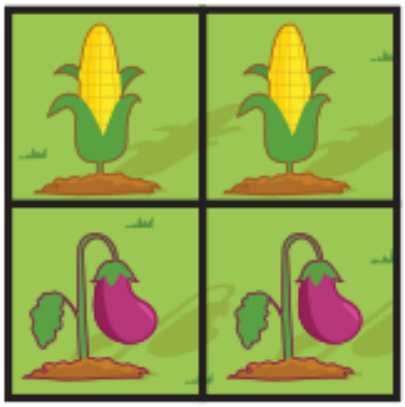
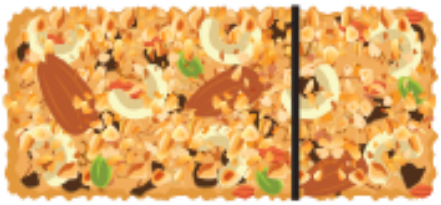
7. **STEM Connection** Does Kayla's garden have equal shares? Explain how you know. Yes, have equal shares. because the parts are the same size



8. **Extend Your Thinking** Andrew and Jane share a snack bar. Do Andrew and Jane get equal shares of the snack bar? Explain how you know. No, the snack bar do not have equal shares. because the parts are not the same size.



Reflect

How can you describe equal shares?

parts of a whole that are exactly the same size.

Math is... Mindset

What did you do well in math? In reading?

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Lesson 13-2

Partition Shapes into Halves

Be Curious

What do you see?



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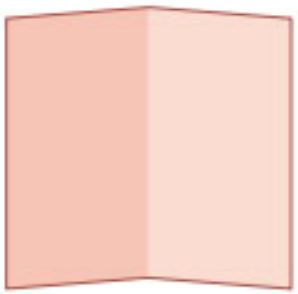
Math is... Mindset

What helps you feel relaxed when you are frustrated?

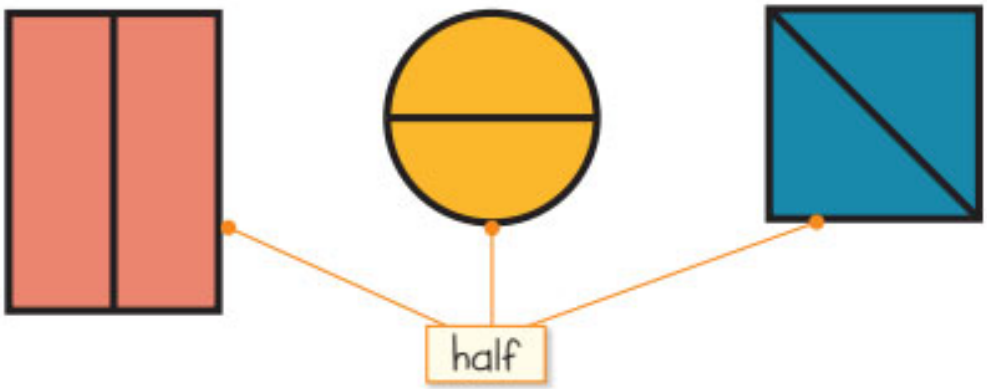
Learn

Hieu folds his paper to make 2 equal shares.



How can you describe the parts?

A whole with 2 equal shares shows **halves**.



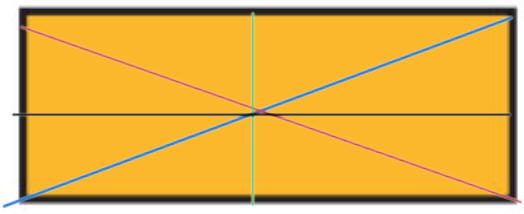
Math is... Explaining

Why are these halves?

Each equal share is **half of** the whole.

Work Together

How can you make halves? Draw to show halves. Explain your thinking.



كل خط يمثل كيف يمكن
ان يقطع المستقيل إلى
نصفين متساويين

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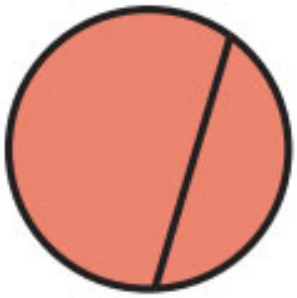
On My Own

Name _____

Does the shape show halves? Circle Yes or No.

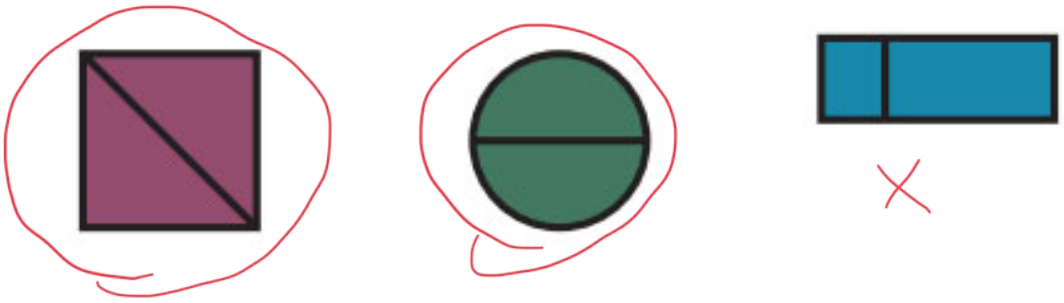
1. 

Yes No

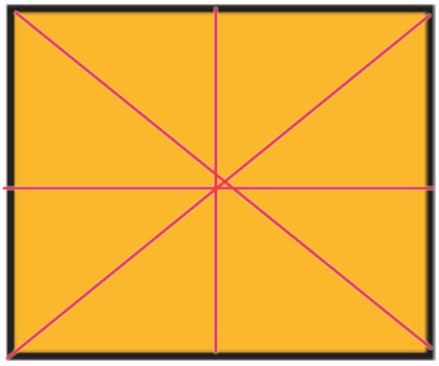
2. 

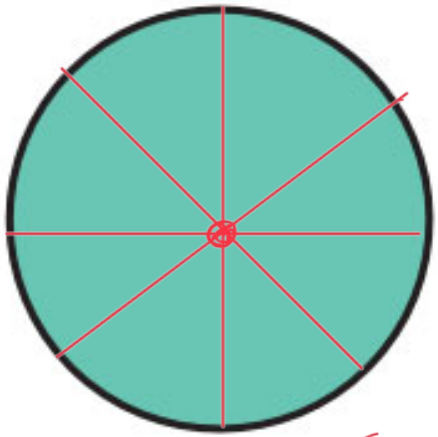
Yes No

3. Which shapes show halves? Circle all the shapes.



How can you make halves? Draw to show halves.

4. 

5. 

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نفس التي نرسم خط واحد.

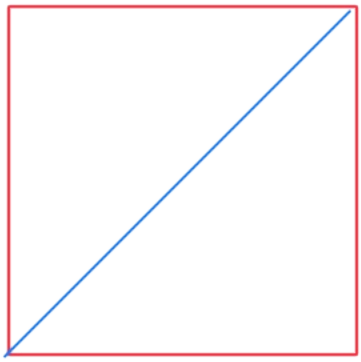
الدائرة يمكن قطعها من اي مكان بشرط يمر بالمركز فرسم خط واحد

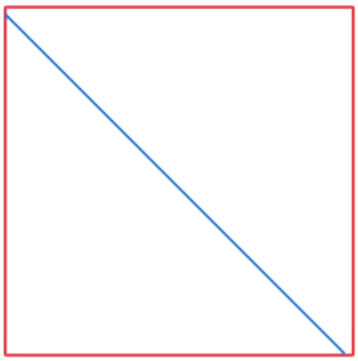
6. **Error Analysis** Jada says this circle shows halves. Do you agree with Jada? Explain your thinking.



No
because the parts not the same size.
or equal size.

7. **Extend Your Thinking** How can you show halves of a square? Show two different ways. Label each half.





Reflect

How can you know if a shape shows halves?

If it is divided into two congruent parts. or.
Each equal share is half of the whole

Math is... Mindset

What did you do to help you feel relaxed when you were frustrated?

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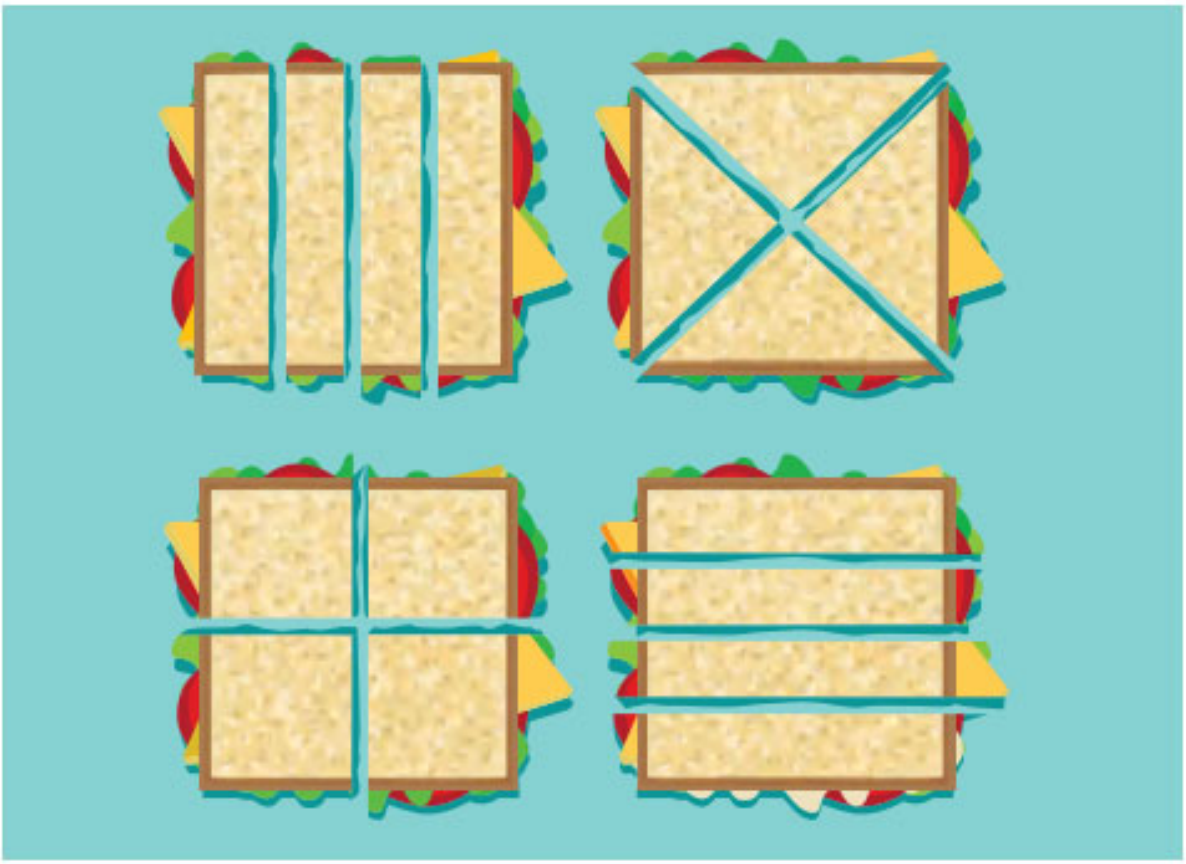
Lesson 13-3

Partition Shapes into Fourths

Be Curious

How are they the same?
How are they different?



Math is... Mindset

How do you show that you value your partner's ideas?

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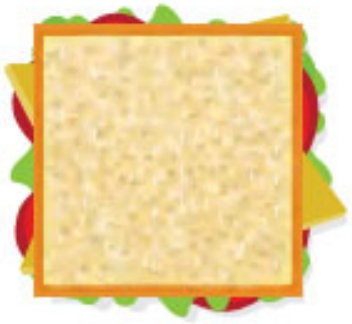
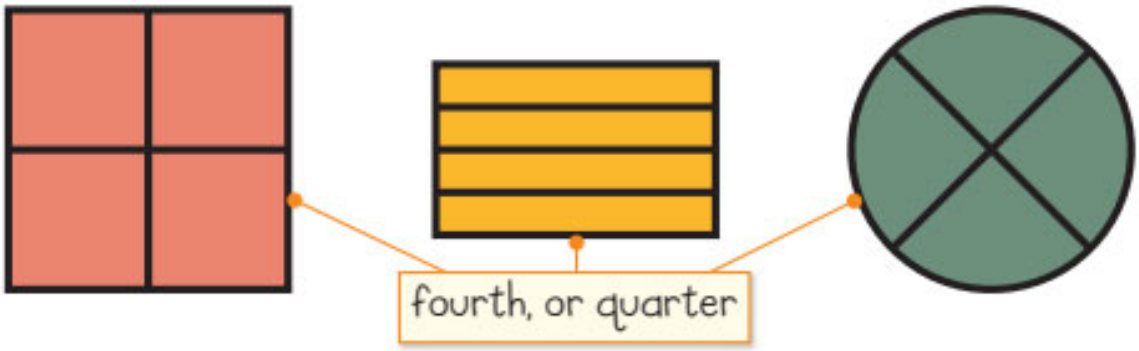
Learn

4 friends share a sandwich.

How can the friends make equal shares?



A whole with 4 equal shares shows **fourths**, or **quarters**.



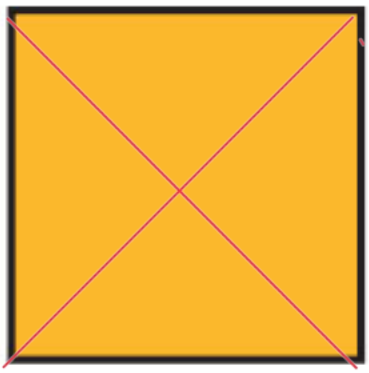
Each equal share is a **fourth of**, or a **quarter of**, the whole.

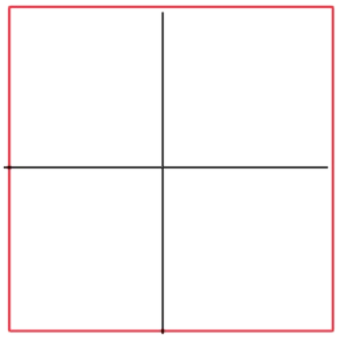
Math is... Connections

What is another meaning for *quarter*?

Work Together

How can you make fourths? Draw to show fourths. Explain your thinking.





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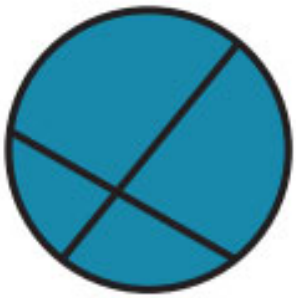
On My Own

Name _____

Does the shape show fourths? Circle Yes or No.

1. 

Yes No

2. 

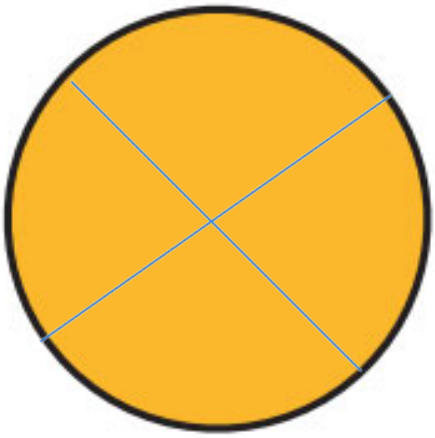
Yes No

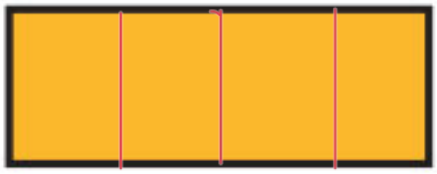
3. Which shapes show quarters? Circle all the shapes.





How can you make fourths? Draw to show fourths.

4. 

5. 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6. **STEM Connection** Chloe puts some boards together. Do the boards show fourths? Explain your thinking.

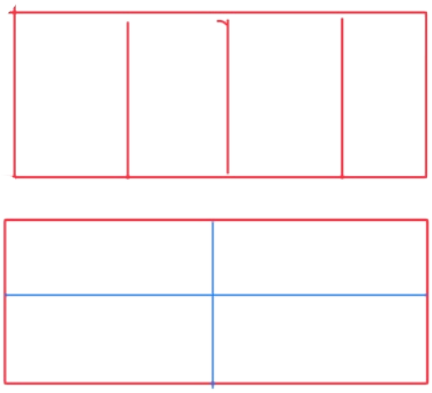




Yes

Each equal share is a fourth of the whole

7. **Extend Your Thinking** How can you show quarters of a rectangle? Show two different ways.



Reflect

How can you know if a shape shows fourths?

Each equal share is a fourth of the whole

Math is... Mindset

How did you show that you valued the ideas of your partner?

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Unit 13

Partitioning into Fourths

Name _____

Decide if each notebook has been divided into fourths. Circle Yes or No.

1.

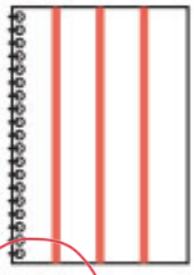


Yes No

Tell or show how you know.

Each equal share is not a fourth of the whole

2.



Yes No

Tell or show how you know.

Each equal share is a fourth of the whole

3.



Yes No

Tell or show how you know.

Each equal share is not a fourth of the whole

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Decide if each notebook has been divided into fourths. Circle Yes or No.

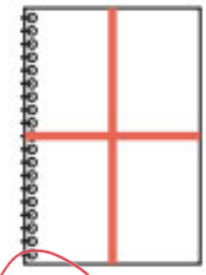
4.



Yes No

Tell or show how you know.

5.



Yes No

Tell or show how you know.

Each equal share is a fourth of the whole

6.



Yes No

Tell or show how you know.

it is half

Reflect On Your Learning





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Describe the Whole

Be Curious

What do you see?



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Math is... Mindset

Why is it important to speak clearly and concisely?

Learn

Some friends share a pizza. The pizza is cut into 4 slices. The slices are the same size. Each student has 1 slice.



How many friends share the pizza?

A whole with 4 equal shares has 4 fourths.



The pizza has 4 slices.



4 friends share the pizza equally.

Math is... Exploring

How is a whole with 4 equal shares different from a whole with 2 equal shares?

You can count the equal shares in a whole.

Work Together

How many quarters?
Explain how you know.



4 quarters

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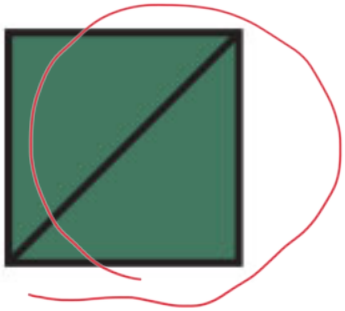
On My Own

MATH REPLAY | GO ONLINE

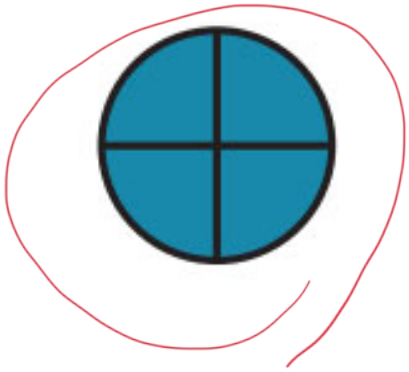
Name _____

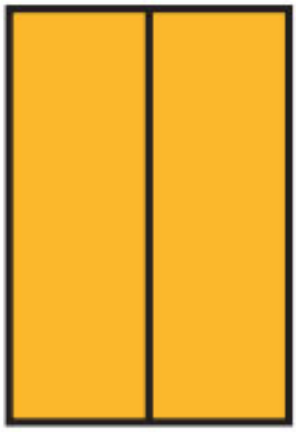
1. Circle the shape that has 2 halves.





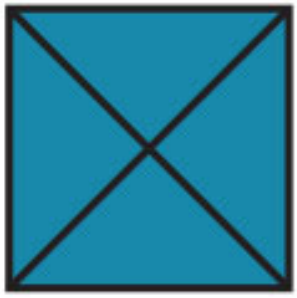
2. Circle the shape that has 4 fourths.





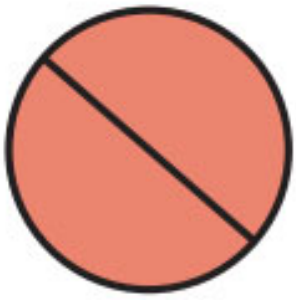
How many equal shares are there? Write the number.

3.



4 quarters

4.



2 halves

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How many equal shares make up the whole?
Write *2 halves* or *4 fourths*.

5. 

2 halves

6. 

4 fourths.

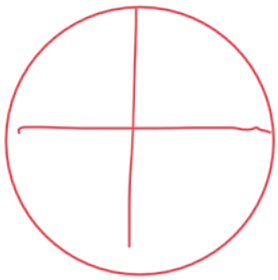
7. **Error Analysis** Nia says there are 4 equal shares. Do you agree? Explain your thinking.



I Don't agree because each parts is not same size

8. **Extend Your Thinking** Some friends break a cracker into fourths. Each friend gets 1 piece. How many friends share the cracker? Draw to show your thinking.

4 friends



Reflect

How can you describe how many equal shares make up a shape?

Math is... Mindset

How did speaking clearly and concisely help you today?

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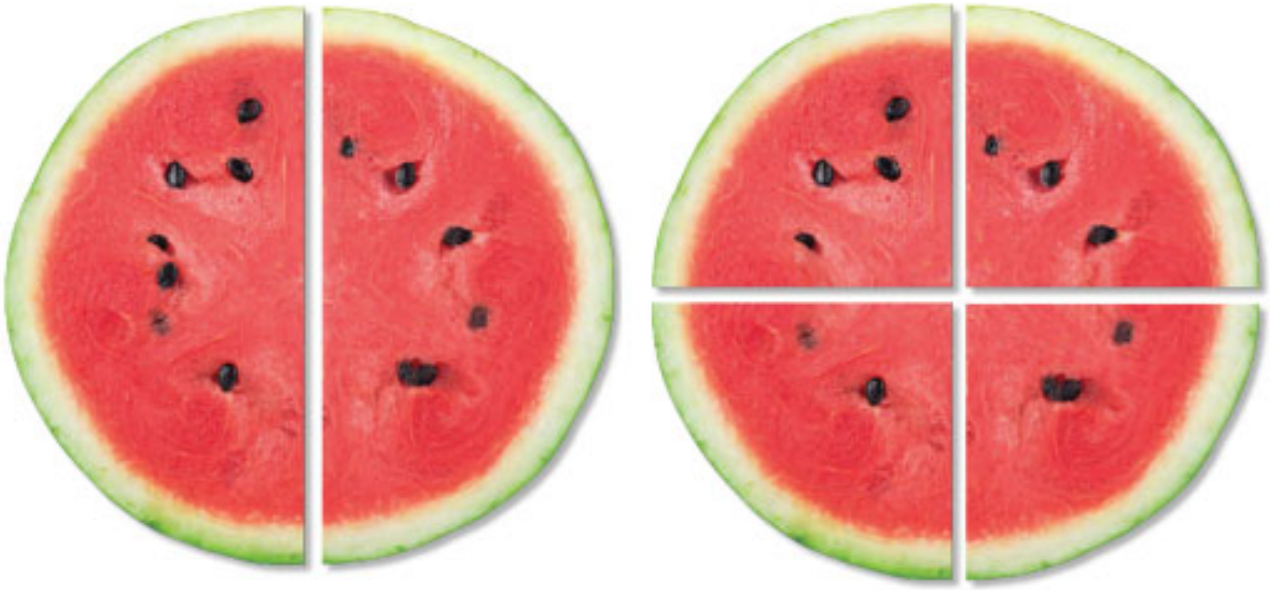
Lesson 13-5

Describe Halves and Fourths of Shapes

Be Curious

How are they the same?
How are they different?



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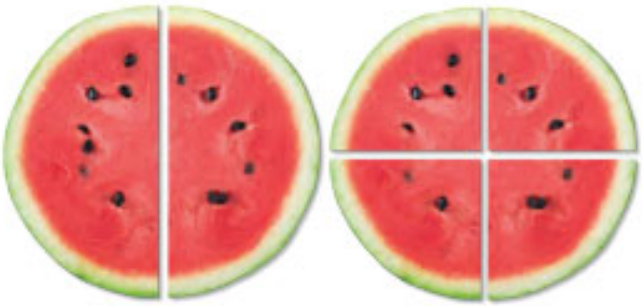
Math is... Mindset

What helps you make good decisions?

Learn

Reshu and Will cut their watermelon different ways.

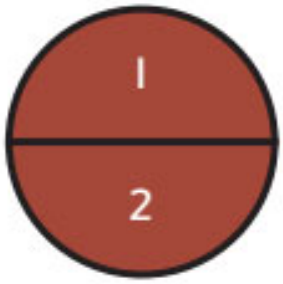
Who has larger pieces of watermelon?



Reshu's watermelon

Will's watermelon

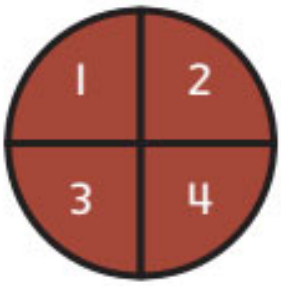
Reshu's watermelon is cut into 2 halves.



The halves are larger than the fourths.

Reshu has larger pieces of watermelon.

Will's watermelon is cut into 4 fourths.



The fourths are smaller than the halves.

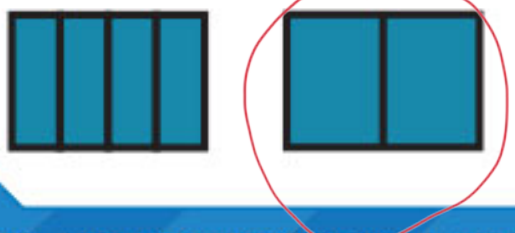
Math is... Exploring

Are halves always larger than fourths? Explain.

You can show halves and fourths of the same whole.

Work Together

Which shape has larger equal shares? Circle the shape. Explain your thinking.



because the halves are larger than the fourths

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On My Own

MATH REPLAY | GO ONLINE

Name _____

Circle the correct answer.

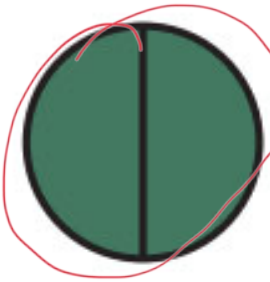
1. Which shows more equal shares?



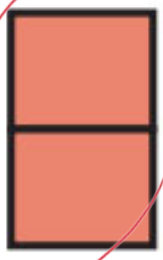


2. Which shows fewer equal shares?





3. Which shows larger equal shares?





4. Which shows smaller equal shares?





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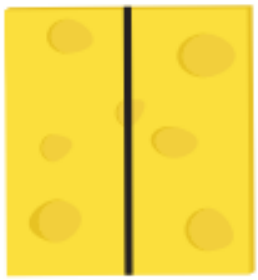
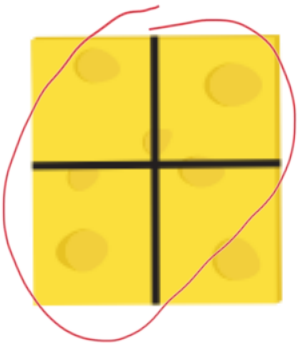
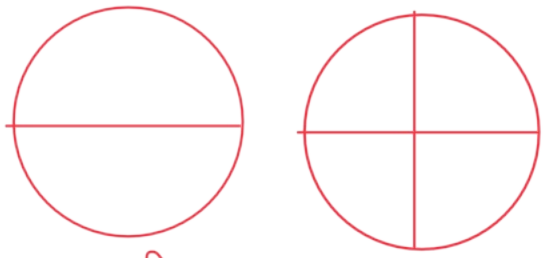
5. Which shows smaller equal shares? Circle the shape. Complete the sentence with *fewer* or *more* to make the sentence true.





A whole with more equal shares has smaller shares.

6. **Extend Your Thinking** A circle shows 2 equal shares. Another circle that is the same size shows 4 equal shares. Which shares are larger? Explain.



circle A because it have a fewer equal shares.

Reflect

How are halves and fourths similar?
How are they different?

- Halves and fourths are similar in that they both repesent parts of a whole
- They differ in size a half is larger then a fourth.

Math is... Mindset

What helped you make good decisions today?

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Unit Review

Name _____

Vocabulary Review

Use the vocabulary to complete each sentence.

equal shares	fourths
fourth of	half of
halves	whole

1. A whole with 2 equal shares shows halves.

2. Halves and fourths are different kinds of equal shares.

3. A whole with 4 equal shares shows fourths.

4. When a shape shows fourths, each part is a fourth of the whole.

5. When a shape shows halves, each part is a half of the whole.

6. An entire shape is the whole.

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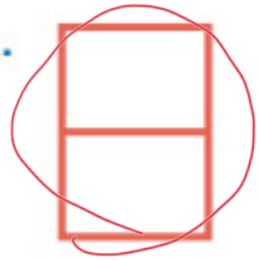
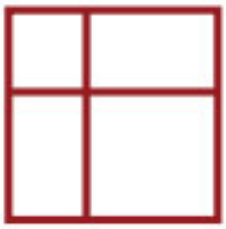
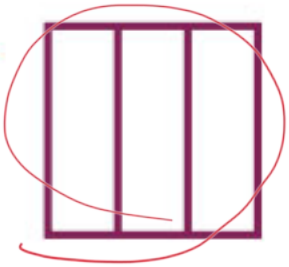
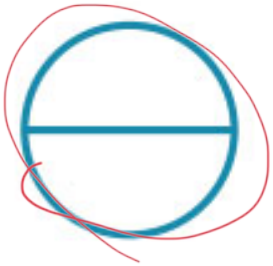
Review

7. Which shapes show equal shares?
Choose all the correct answers.

A. 

B. 

C. 

D. 

8. How many quarters does this shape show?



4 quarters

9. Which shows smaller equal shares?
Circle the shape. Explain your thinking.



The first square have 4 equal parts
The second square have 2 equal parts
then fourth are smaller than half

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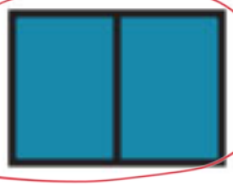
10. Which shapes show halves? Choose all the correct answers.

A. 

B. 

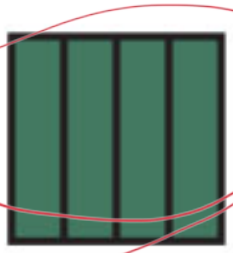
C. 

D. 

11. Which shapes show fourths? Choose all the correct answers.

A. 

B. 

C. 

D. 

12. How many halves does this shape have?



2 halves

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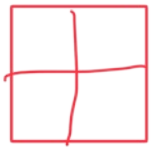
Performance Task

Jessie and Brett each plant a garden. The gardens are the same size. Jessie marks her garden into fourths. Brett marks his garden into halves.

Part A: Draw to show Jessie's garden and Brett's garden.

Jessie



Bertt's



Part B: How many equal shares do Jessie and Brett each make?

Jessie makes 4 equal shares.
Brett makes 2 equal shares.

Part C: Who makes larger equal shares? Explain how you know.

Brett

يتدرب الطالب كيف عرف

Reflect

What are equal shares?

Are parts of a whole that are exactly the same size.

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Unit 13

Fluency Practice

Name _____

Fluency Strategy

You can use place value to help you add or subtract 10.

$4 + 10 = ?$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

When you add 10, the tens digit goes up 1.

The ones digit is the same.

So, $4 + 10 = 14$.

$16 - 10 = ?$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

When you subtract 10, the tens digit goes down 1.

The ones digit is the same.

So, $16 - 10 = 6$.

1. How can you use place value to subtract $12 - 10$? Color the numbers on the chart.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

2

Fluency Flash

What is the sum or difference? Use place value.

2. $3 + 10 =$ 13

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

3. $18 - 10 =$ 8

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

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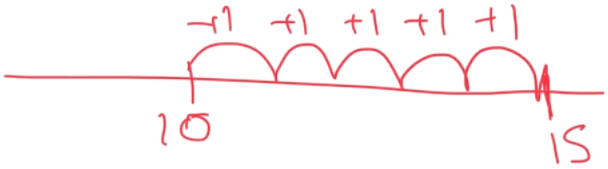
Fluency Check

What is the sum or difference? Write the number.

4. $17 - 10 =$ 7
5. $4 + 6 =$ 10
6. $9 + 10 =$ 19
7. $15 - 10 =$ 5
8. $19 - 10 =$ 9
9. $8 - 5 =$ 3
10. $4 + 5 =$ 9
11. $8 + 10 =$ 18
12. $9 - 4 =$ 5
13. $2 + 3 =$ 5
14. $7 - 3 =$ 4
15. $2 + 10 =$ 12

Fluency Talk

How do you know that $5 + 10 = 15$?



How can you use doubles to subtract $5 - 3$? Explain your work.

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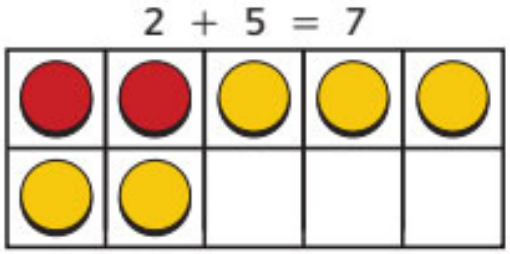
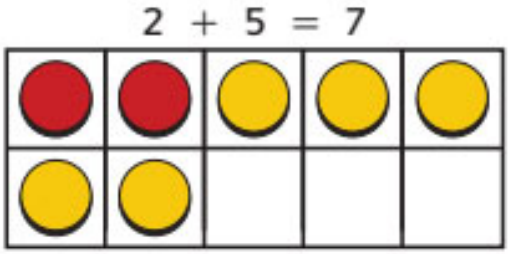
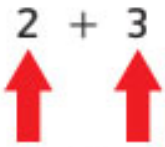
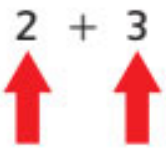
Glossary/Glosario

English	Spanish/Español
Aa	
add (adding, addition) To join together sets to find the total or sum. 	sumar (adición) Unir conjuntos para hallar el total o la suma. 
addend Any numbers or quantities being added together.  2 is an addend and 3 is an addend	sumando Números o cantidades que se suman.  2 es un sumando y 3 es un sumando
analog clock A clock that has an hour hand and a minute hand. 	reloj analógico Reloj que tiene manecilla horaria y minutero. 

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English	Spanish/Español
Cc	
circle A closed, round figure. 	**círculo** Figura redonda y cerrarda. 
closed shape A shape that begins and ends at the same point. 	**figura cerrada** Figura que comienza y termina en el mismo punto. 
column A column goes up and down on a number chart.	**columna** Una columna sube y baja en una tabla numérica.
compare To look at objects, shapes, or numbers and see how they are alike or different.	**comparar** Observar objetos, formas o números para saber en qué se parecen y en qué se diferencian.

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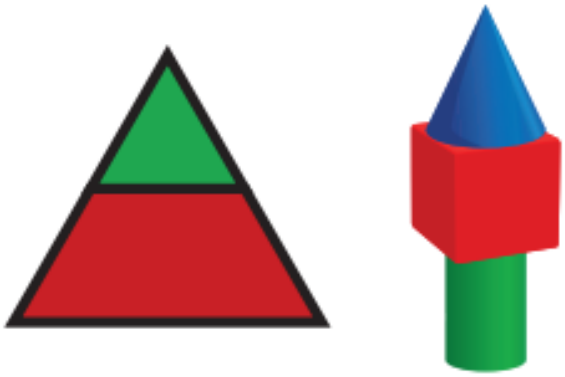
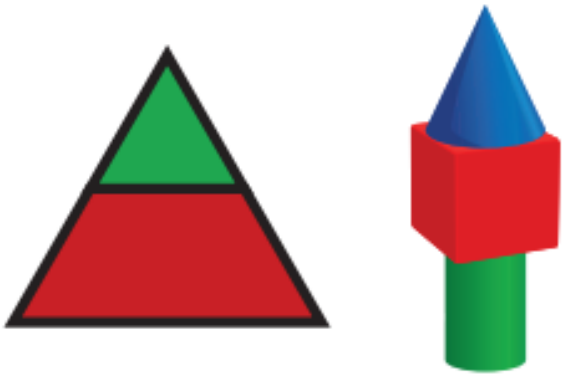
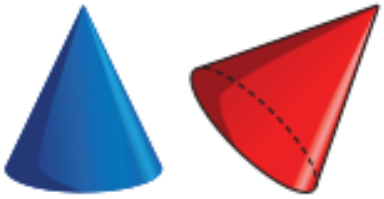
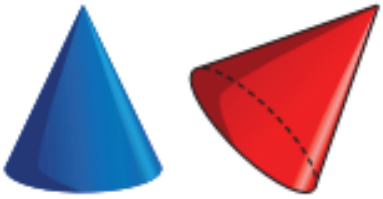
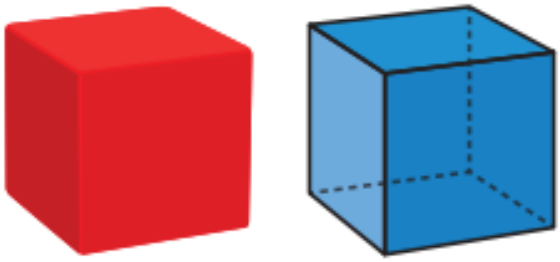
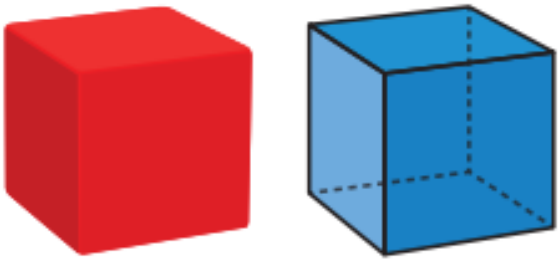
English	Spanish/Español
composite shape A figure made up of two or more shapes. 	figura compuesta Figura formada por dos o más figuras. 
cone A 3-dimensional shape with 1 round base and 1 apex. 	cono Figura tridimensional con una base redonda y un punto de unión. 
cube A 3-dimensional shape with 6 square faces, 8 vertices, and 12 edges. 	cubo Figura tridimensional con 6 caras cuadradas, 8 vértices y 12 bordes. 

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English	Spanish/Español
cylinder A 3-dimensional shape with 2 round faces and a curved surface. 	**cilindro** Figura tridimensional con 2 caras redondas y una cara curva. 

Dd

data Numbers or symbols collected to show information. **Name** / **Number of Pets**: Mary 3; James 1; Alonzo 4	**datos** Números o símbolos que se reúnen para mostrar información. **Nombre** / **Número de mascotas**: Mary 3; James 1; Alonzo 4
difference Subtracting one number from another number gives the difference. $3 - 1 = 2$ The difference is 2.	**diferencia** Restando un número de otro número da la diferencia. $3 - 1 = 2$ La diferencia es 2.
digit A symbol used to write numbers. The ten digits are: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.	**dígito** Símbolo usado para escribir números. Los diez dígitos son: 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

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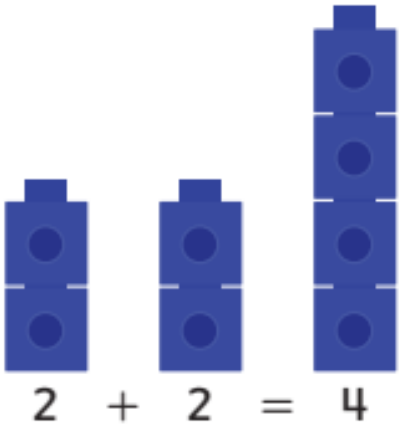
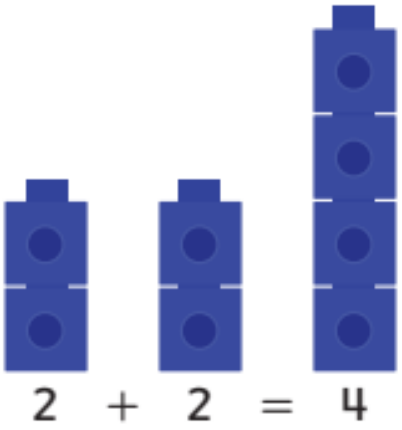
English	Spanish/Español
doubles Two addends that are the same number. 	**dobles** Dos sumandos que son el mismo número. 
Ee	
edge The line where two sides or faces meet. 	**borde** Línea donde dos lados o caras se unen. 
equal shares Each share is the same size. Example: This muffin is cut into 2 equal shares. 	**partes iguales** Cada una de las partes tiene el mismo tamaño. Ejemplo: Este pastelillo está cortado en 2 partes iguales. 

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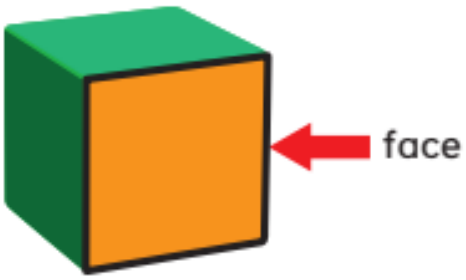
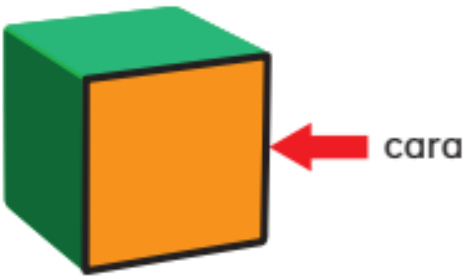
English	Spanish/Español
equal sign (=) Having the same value as or is the same as. $2 + 4 = 6$ equal sign	**signo igual (=)** Que tienen el mismo valor o son lo mismo. $2 + 4 = 6$ signo igual
equal to (=)  $6 = 6$ 6 is equal to or the same as 6	**igual a (=)**  $6 = 6$ 6 es igual o lo mismo que 6
equation A number sentence that includes an equal sign. $5 + 7 = 12$	**ecuación** Una oración numérica que incluye el signo igual. $5 + 7 = 12$

Ff

face The flat part of a 3-dimensional figure. Example: A square is a face of a cube.  face	**cara** La parte plana de una figura tridimensional. Ejemplo: Un cuadrado es la cara de un cubo.  cara

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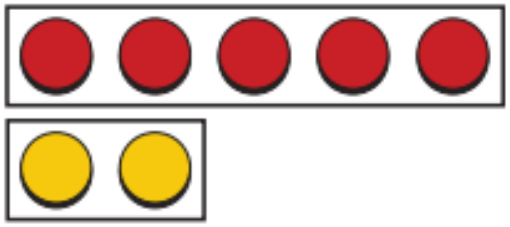
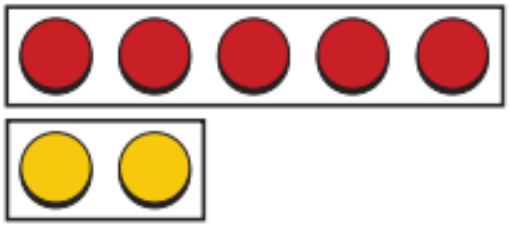
English	Spanish/Español
fact family Addition and subtraction sentences that use the same numbers. Sometimes called *related facts.* $6 + 7 = 13$ $13 - 7 = 6$ $7 + 6 = 13$ $13 - 6 = 7$	**familia de operaciones** Enunciados de suma y resta que tienen los mismos números. Algunas veces se llaman *operaciones relacionadas.* $6 + 7 = 13$ $13 - 7 = 6$ $7 + 6 = 13$ $13 - 6 = 7$
fewer Not as many or a smaller amount.  There are fewer yellow counters than red ones.	**menos** El número o grupo con menos.  Hay menos fichas amarillas que fichas rojas.
fourths Four equal parts of a whole. Each part is a fourth, or a quarter, of the whole.	**cuartos** Cuarto partes iguales de un todo. Cada parte es un cuarto, o la cuarta parte del todo.

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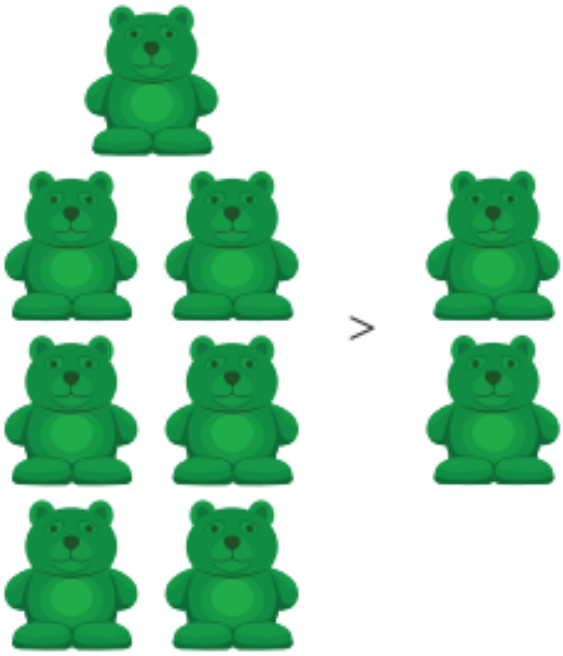
English | Spanish/Español

Gg

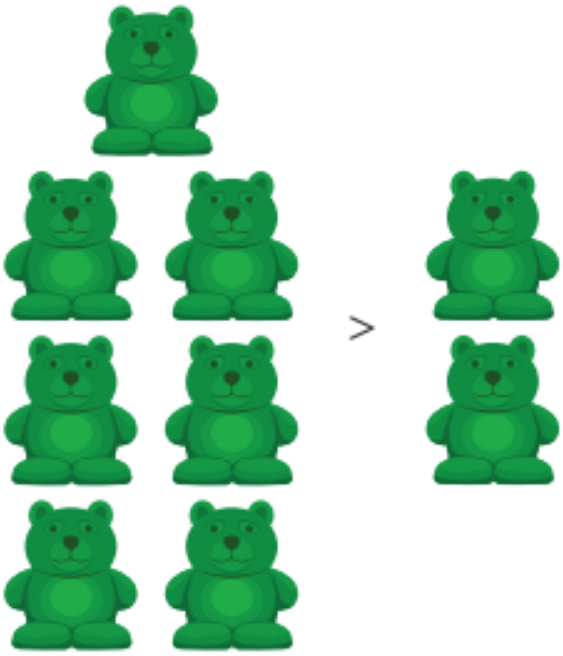
greater than (>) When an amount is larger than another amount.

Example: 7 is greater than 2 or 7 > 2.



mayor que (>) Cuand o una cantidad es más grande que otro.

Ejemplo: 7 es mayor que 2 o 7 > 2.



Hh

half hour (or half past) One half of an hour is 30 minutes. Sometimes called *half past* or *half past the hour.*



media hora (o y media) Media hora son 30 minutos. A veces se dice hora y media.



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English	Spanish/Español
halves Two equal parts of a whole. Each part is a half of the whole.	**mitades** Dos partes iguales de un todo. Cada parte es la mitad de un todo.
hexagon A 2-dimensional shape that has 6 sides. 	**hexágono** Una figura bidimensional con 6 lados. 
hour A unit of time. 1 hour = 60 minutes  	**hora** Unidad de tiempo. 1 hora = 60 minutos  
hour hand The hand on a clock that tells the hour. It is the shorter hand. 	**manecilla horaria** Manecilla del reloj que indica la hora. Es la manecilla más corta. 

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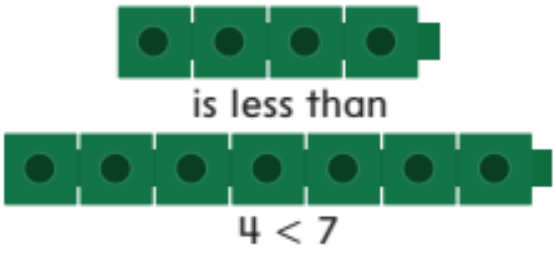
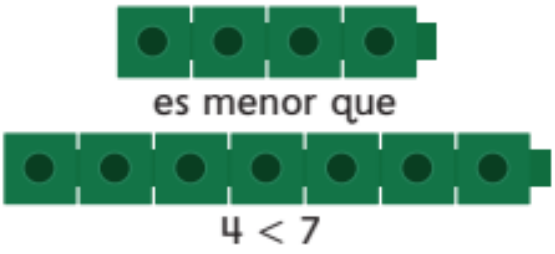
English	Spanish/Español
Ll	
length How long or how far away something is. 	**longitud** La mayor de las dos dimensiones principales que tienen las cosas o figuras planas. 
less than (<) 4 is less than 7. 	**menor que (<)** 4 es menor que 7. 

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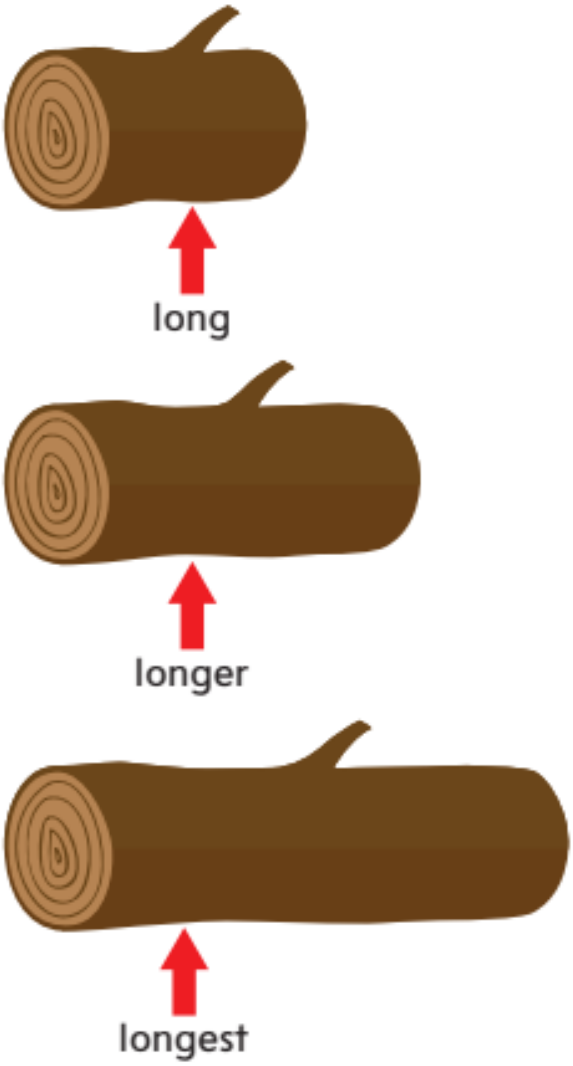
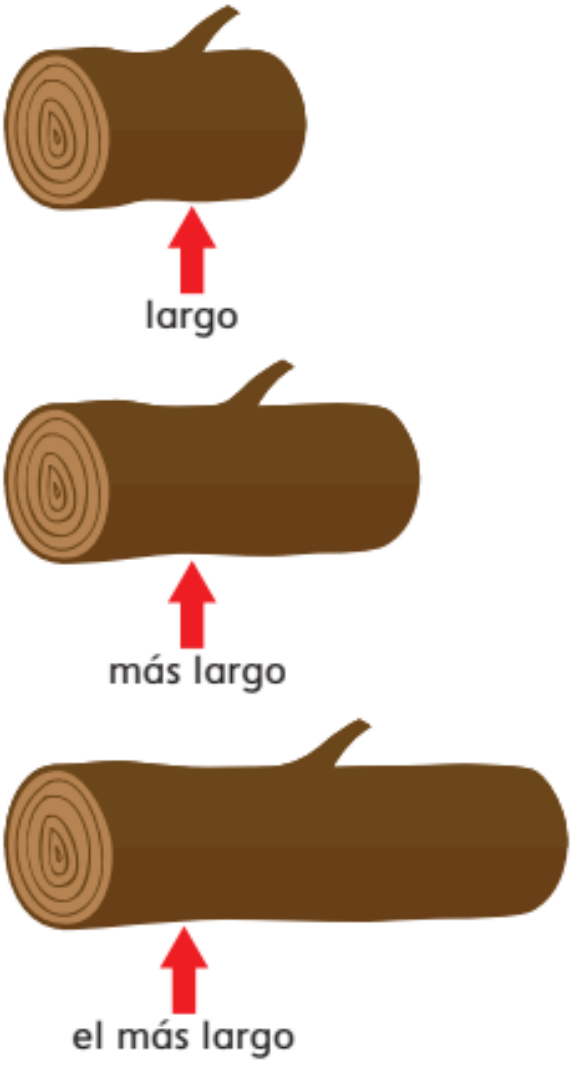
English	Spanish/Español
long (longer, longest) A way to compare the lengths of objects. 	largo (más largo, el más largo) Forma de comparar la l ongitud de objetos. 

Mm

measure To find the length, height, or weight using standard or nonstandard units.	medir Hallar la longitud, estatura o peso mediante unidades estándar o no estándar.

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English	Spanish/Español
minus (–) The sign used to show subtraction. 5 – 2 = 3 minus sign	**menos (–)** Signo que indica resta. 5 – 2 = 3 signo menos
minute A unit used to measure time. 1 minute = 60 seconds 	**minuto** Unidad para medir tiempo. 1 minuto = 60 segundos 
minute hand The longer hand on a clock that tells the minutes. 	**minutero** La manecilla más larga del reloj que indica los minutos. 

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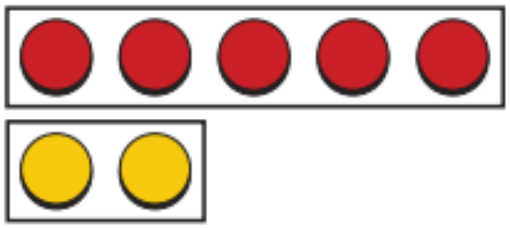
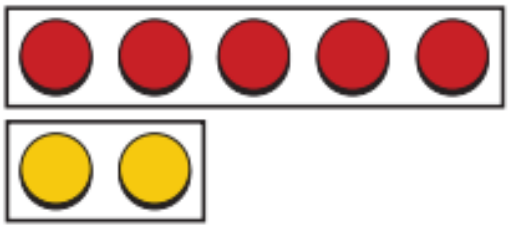
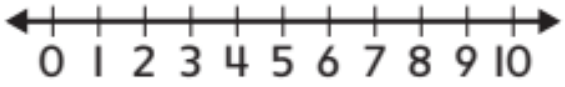
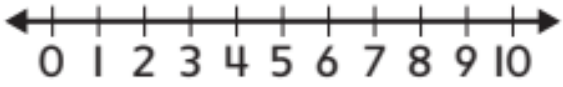
English	Spanish/Español
more A larger or greater amount.  There are more red counters than yellow ones.	**más** Una cantidad mayor o más grande.  Hay más fichas rojas que amarillas.

Nn

number line A line with number labels. 	**recta numérica** Recta con marcas de números. 

Oo

one-fourth One of 4 equal shares.  one-fourth shaded	**un cuarto** Una de 4 partes iguales.  un cuarto sombreado

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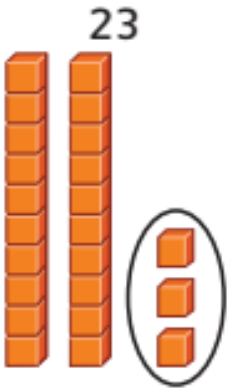
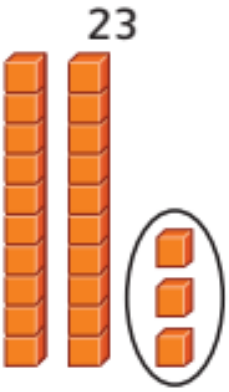
English	Spanish/Español
one-half One of 2 equal shares.  one-half shaded	**mitad** Una de 2 figuras iguales.  una mitad sombreada
ones The numbers in the range of 0–9. It is the place value of a number.  This number has 3 ones.	**unidades** Los números en el rango de 0 a 9. Es el valor posicional de un número.  Este número tiene 3 unos.
open shape A figure not connected at one or more points.	**figura abierta** Figura que no está unida en uno o más puntos.

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English	Spanish/Español
Pp	
pattern An order that a set of objects or numbers follows over and over.  pattern unit	**patrón** Orden que sigue continuamente un conjunto de objectos o números.  unidad de patrón
picture graph A graph that has different pictures to show information collected. 	**gráfica con imágenes** Gráfica que tiene diferentes imágenes para ilustrar la información recopilada. 
place value The value given to a digit by its place in a number. 65 6 tens 5 ones	**valor posicional** Valor de un dígito según el lugar en el número. 65 6 decenas 5 unidades
plus (+) The sign used to show addition. $4 + 5 = 9$ plus sign	**más (+)** Símbolo para mostrar la suma. $4 + 5 = 9$ signo más

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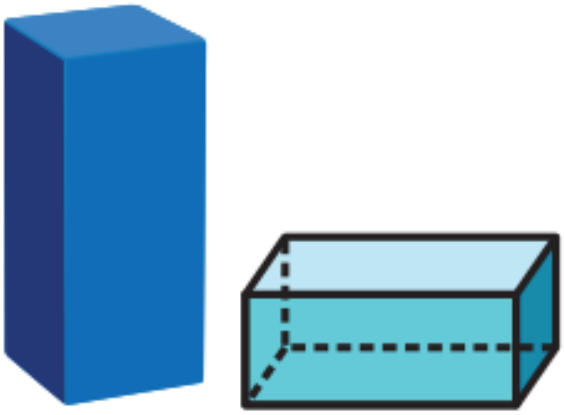
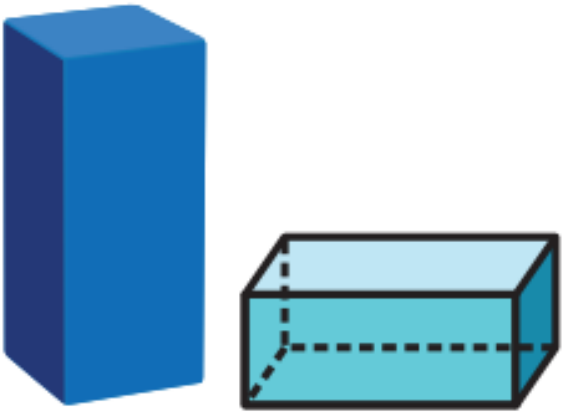
English	Spanish/Español
Rr	
rectangle A shape with 4 straight sides and 4 vertices. 	**rectángulo** Figura con 4 lados y 4 esquinas. 
rectangular prism A 3-dimensional shape with 6 faces, 8 vertices, and 12 edges. 	**prisma rectangula** Figura tridimensional con 6 caras, 8 esquinas y 12 bordes. 
related fact(s) Basic facts using the same numbers. Sometimes called a *fact family*. $6 + 4 = 10$ $10 - 6 = 4$ $4 + 6 = 10$ $10 - 4 = 6$	**operaciones relacionadas** Operaciones básicas en las cuales se usan los mismos números. También se llaman familias de operaciones. $6 + 4 = 10$ $10 - 6 = 4$ $4 + 6 = 10$ $10 - 4 = 6$
row A row goes left to right on a number chart.	**fila** Una fila se lee de izquierda a derecha en una tabla numérica.

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Ss

short (shorter, shortest) To compare length or height of two (or more) objects.



short



shorter

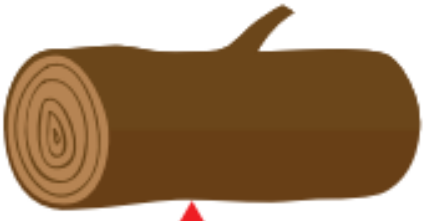


shortest

corto (más corto, el más corto) Comparar la longitud o la altura de dos (o más) objetos.



corto



más corto



el más corto

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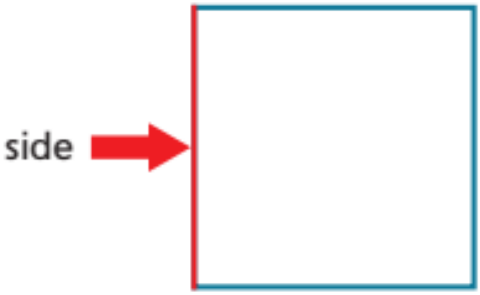
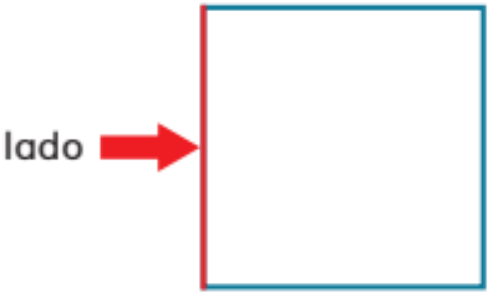
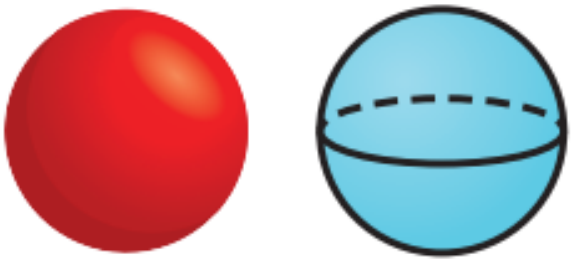
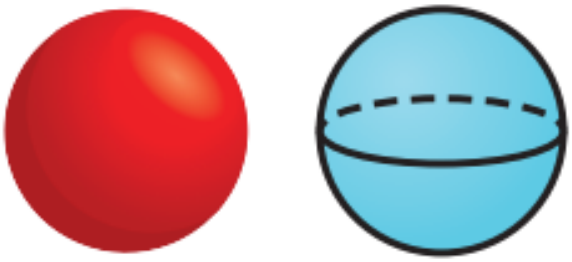
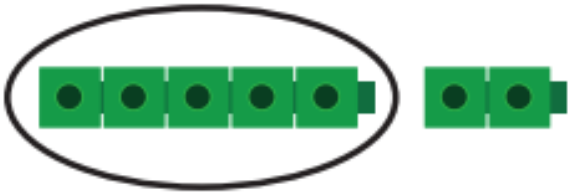
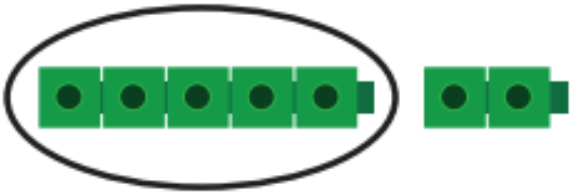
English	Spanish/Español
side One of the lines that make up a shape.  	**lado** Uno de la lãneas que compone una figura. 
sphere A solid shape that has the shape of a round ball. 	**esfera** Figura sólida con la forma de una pelota redonda. 
square A rectangle that has 4 equal sides.	**cuadrado** Rectángulo que tiene 4 lados iguales.
subtract (subtracting, subtraction) To take away, take apart, separate, or find the difference between two sets. The opposite of addition.  $7 - 2 = 5$	**restar (resta, sustracción** Eliminar, quitar, separar o hallar la diferencia entre dos conjuntos. Lo opuesto de la suma.  $7 - 2 = 5$

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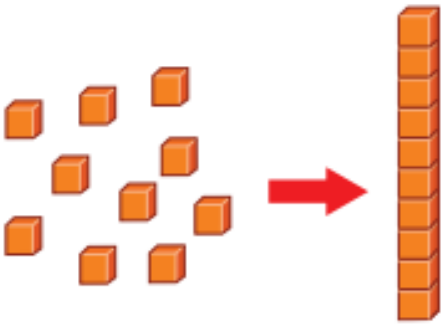
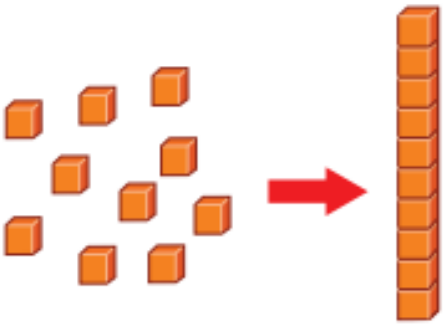
English	Spanish/Español
sum Adding two or more numbers gives the sum. $2 + 4 = 6$ sum	**suma** Sumando dos o más números da la suma. $2 + 4 = 6$ suma

Tt

tally mark(s) A mark used to record data collected in a survey. 𝍸 ||	**marca(s)** Símbolo usado para anotar datos de una encuesta. 𝍸 ||
teen number A number that is 1 group of ten and some ones. Example: 12	**números del 11 al 19** Un número formado por una decena y algunas unidades. Ejemplo: 12
ten One group of 10 ones is 1 ten. 	**decena** Un grupo de 10 es una decena. 

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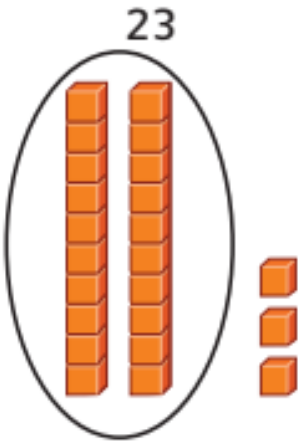
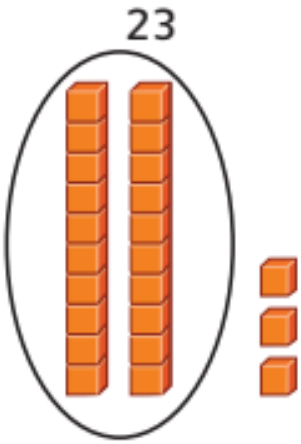
English	Spanish/Español
tens A place value of a number. Example: In the number 23, the 2 is in the tens place.  This number has 2 tens.	**decenas** El valor posicional de un número. Ejemplo: En el número 23, el 2 está en el lugar de las decenas.  Este número tiene 2 decenos.
triangle A shape with 3 sides. 	**trapecio** Figura con 3 lados. 

Uu

unit An object used to measure. 	**unidad** Objeto que se usa para medir. 

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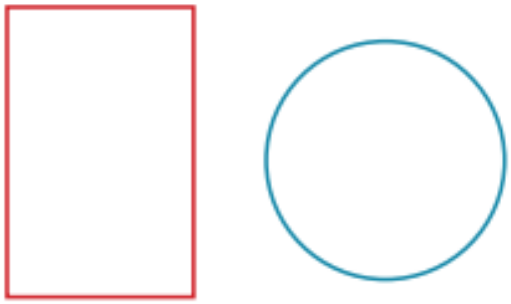
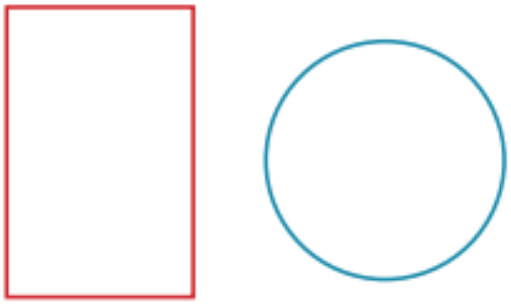
English	Spanish/Español
unknown A missing number in an equation. $9 + ? = 10$	**incógnita** El número que falta en una ecuación. $9 + ? = 10$

Ww

English	Spanish/Español
whole The entire object.	**el todo** El objeto completo.





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