Name _____

Solve

Solve & Share

Your bag has 2 different colors of connecting cubes. Take out a handful of cubes. Make sure to get some cubes of each color.

How can you use numbers to show how many cubes you picked in all? Show how.

Step Up to Grade 1

Lesson 1

Introducing Addition Expressions and Equations

I can ...

write equations to show the parts and the whole.

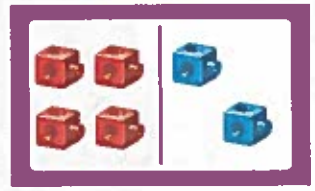
Content Standard 1.OA.C.6
Mathematical Practices MP.2, MP.4

Learn Glossary

Kenny picked 4 red cubes. Then he picked 2 blue cubes.

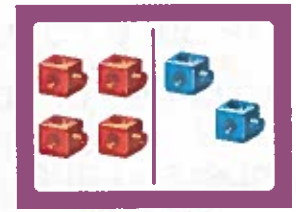
You can describe the parts as 4 and 2 and write 4 + 2.

plus



The parts are 4 and 2.

You can **add** the parts to find the **sum**. 4 and 2 is 6 in all.



6 is the sum of 4 and 2.

You can write an **equation** to show the parts and the whole.

4 + 2 = 6

4 plus 2 **equals** 6.

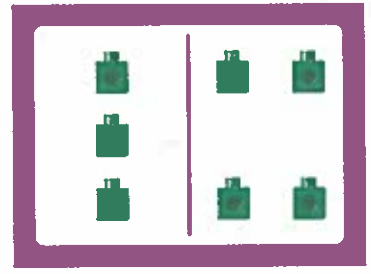
Do You Understand?

Show Me! What can you do to find how many there are in all?

Guided Practice

Use the model. Write the parts. Then write an equation.

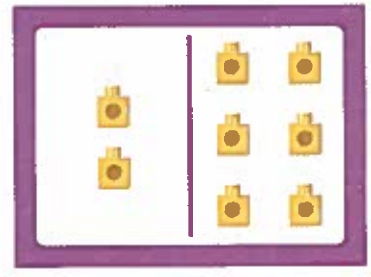
1.



3 + 4

3 + 4 = 7

2.



___ + ___

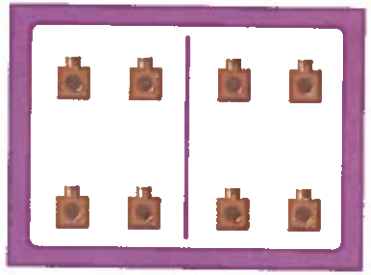
___ = ___ + ___

Name _____

Independent Practice

Use the model. Write the parts. Then write an equation.

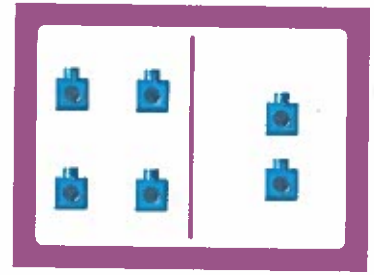
3.



___ + ___

___ + ___ = ___

4.



___ + ___

___ + ___ = ___

5.

___ + ___

___ = ___ + ___

6. **Higher Order Thinking** Jim picked up 9 rocks. He picked up 4 of them on his way to school. He picked up the rest on his way home. How many rocks did Jim pick up on his way home?

Draw a picture to solve.
Then write an equation.

___ + ___ = ___

Math Practices and Problem Solving

Solve each problem below.

7. **MP.2 Reasoning** Ben found 4 orange leaves.
Then he found 3 yellow leaves.
How many leaves did Ben find in all?

Draw a picture to show the story.
Then write an equation.

____ + ____ = ____

8. **Higher Order Thinking** Draw a picture to show an addition story about red worms and brown worms. Write an equation to tell how many worms there are in all.

____ + ____ = ____

9. **Assessment** Ava drew 9 apples. 3 of them are green. The others are red. How many red apples did she draw?

Which equation matches this story?

Ⓐ 9 + 3 = 12

Ⓑ 4 + 5 = 9

Ⓒ 3 + 6 = 9

Ⓓ 3 + 3 = 6

Name _____

Solve

Step Up to Grade 1

Lesson 2

Facts with 5 on a Ten-Frame

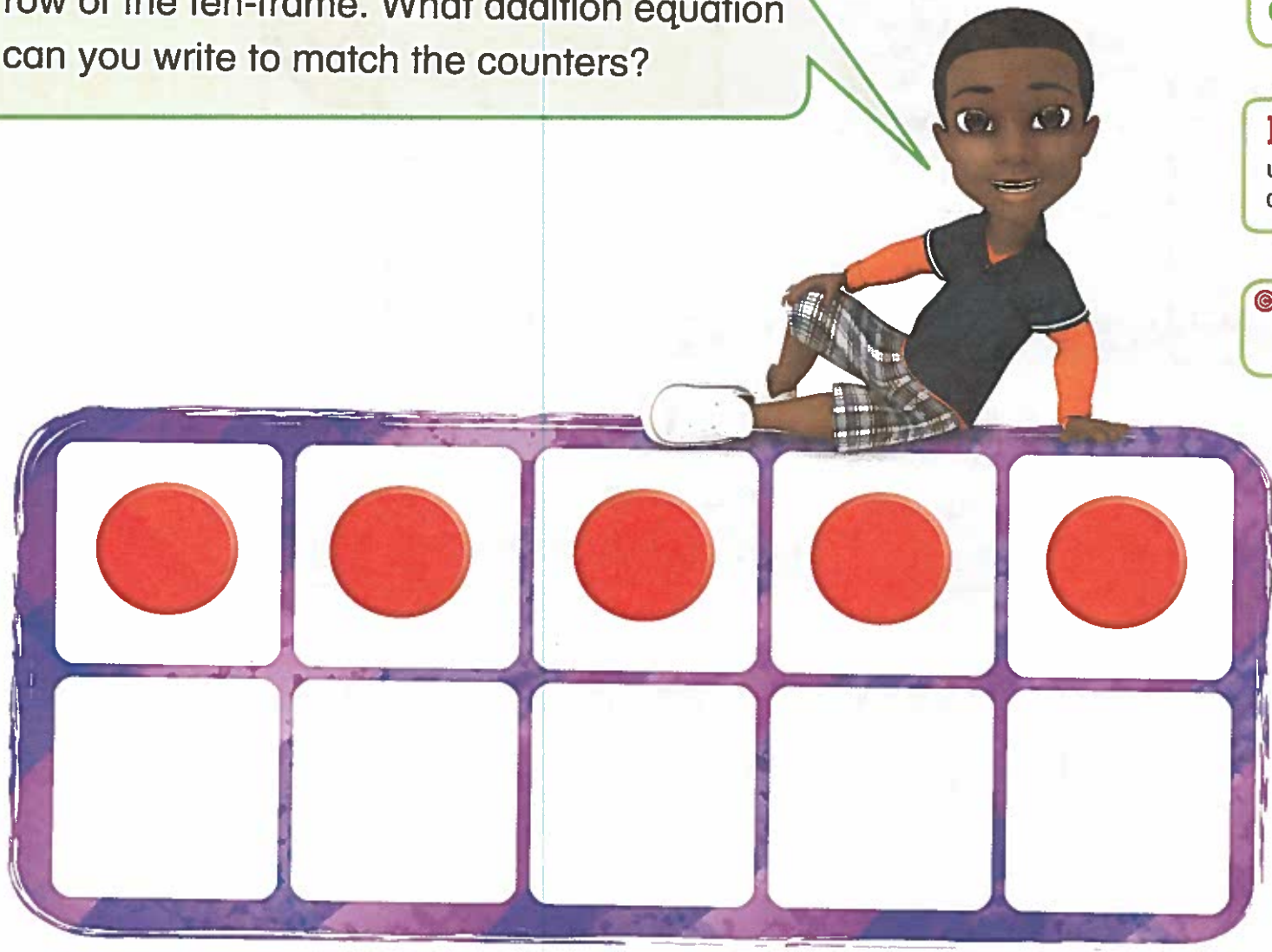
I can ...

use a ten-frame to help solve addition facts with 5 and 10.

Content Standard 1.OA.C.6
Mathematical Practices MP.3, MP.4, MP.7

Solve & Share

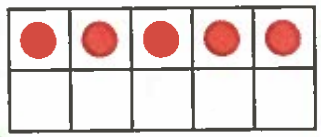
Put some counters on the bottom row of the ten-frame. What addition equation can you write to match the counters?



_____ + _____ = _____

You can use a ten-frame to show an addition fact with 5.

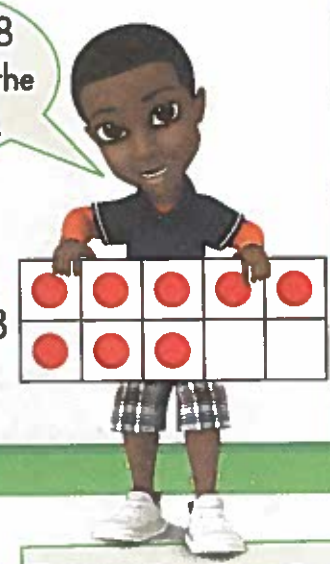
$5 + 3 = ?$



Start with 5. Then add 3 more.

5 and 3 more is 8.

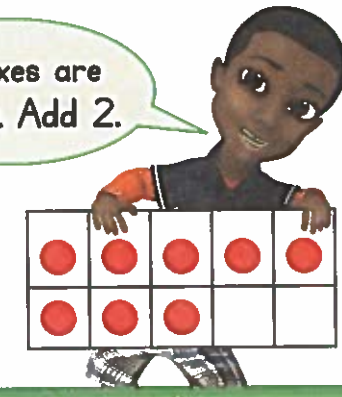
There are 8 counters in the ten-frame.



$5 + 3 = 8$

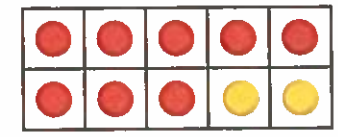
The ten-frame shows another addition fact. You have 8. Make 10.

2 boxes are empty. Add 2.



8 plus 2 more is 10.

$8 + 2 = 10$



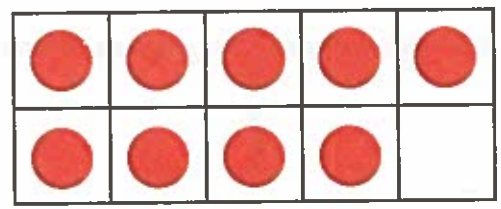
Do You Understand?

Show Me! How does a ten-frame help you add $5 + 4$?

☆ Guided Practice ☆

Look at the ten-frames.
Write an addition fact with 5.
Then write an addition fact for 10.

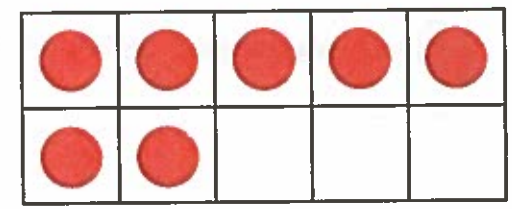
1.



$5 + \_\_\_\_ = 9$

$9 + \_\_\_\_ = 10$

2.



$5 + \_\_\_\_ = \_\_\_\_$

$\_\_\_\_ + \_\_\_\_ = 10$

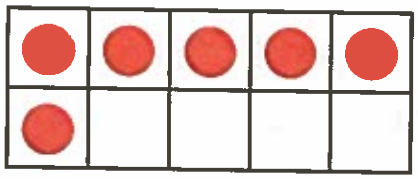
Name _____

Tools Assessment

Independent Practice

Look at the ten-frames. Write an addition fact with 5. Then write an addition fact for 10.

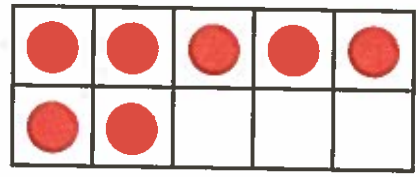
3.



5 + ____ = ____

____ + ____ = 10

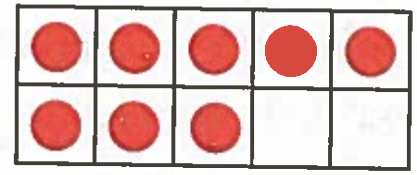
4.



5 + ____ = ____

____ + ____ = 10

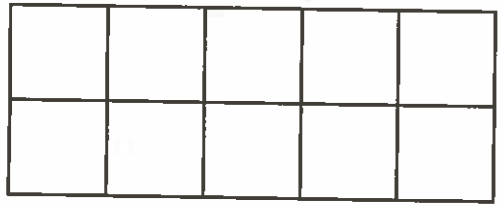
5.



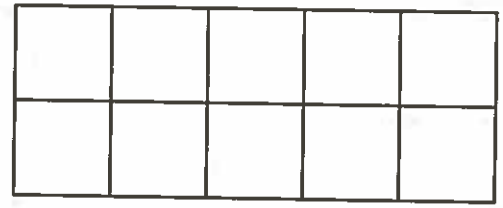
5 + ____ = ____

____ + ____ = 10

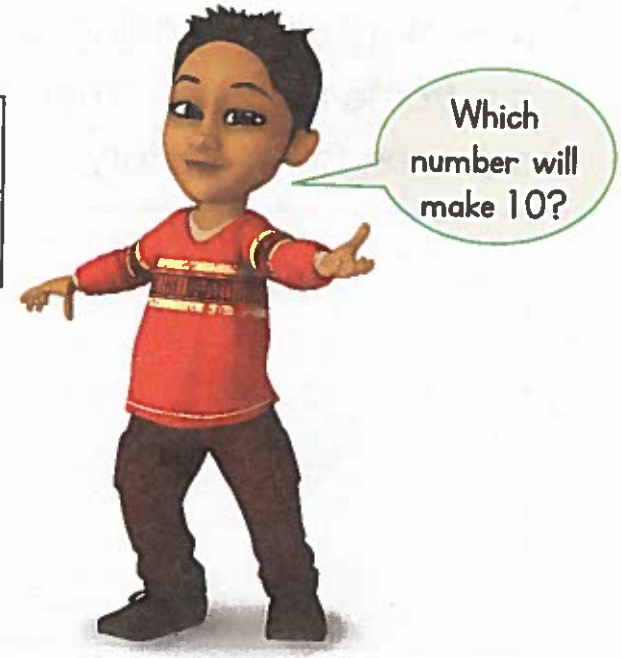
6. **Higher Order Thinking** Using 2 colors, draw counters in the ten-frames to match the addition equations. Then write the missing numbers.



7 + ____ = 10



9 + ____ = 10

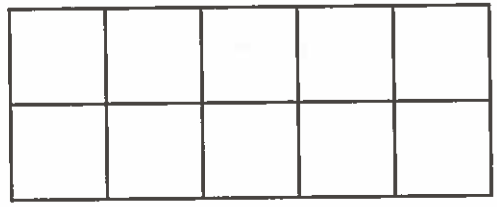


Math Practices and Problem Solving

Solve each problem below.

7. **MP.4 Model** A team has 5 softballs. The coach brings 3 more. How many softballs does the team have now?

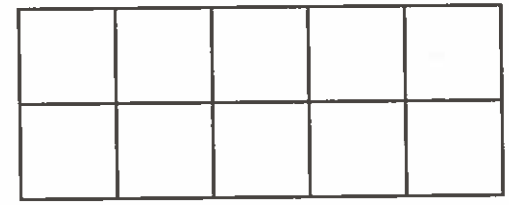
Draw counters in the ten-frame.
Then write an addition fact to solve.



____ + ____ = ____ ____ softballs

8. **MP.4 Model** Marcia reads 5 books. Tanya reads 2 books. How many books did the girls read in all?

Draw counters in the ten-frame.
Then write an addition fact to solve.



____ + ____ = ____ ____ books

9. **Higher Order Thinking** Write a new story about adding to 10 in the ten-frame in Item 7. Then write an equation for your story.

____ + ____ = ____

10. **Assessment** Scott's team has 5 footballs. Scott's coach brings some more. Scott's team now has 10 footballs.

Which addition fact shows how many footballs Scott's coach brought?

Ⓐ 5 + 5 = 10

Ⓑ 10 + 5 = 15

Ⓒ 7 + 3 = 10

Ⓓ 10 + 7 = 17

Name _____

Solve & Share

Write an addition equation for the green and yellow cubes in each cube tower. How are the addition equations the same? How are they different?

_____ + _____ = _____

_____ + _____ = _____

Solve

Step Up to Grade 1

Lesson 3

Add in Any Order

I can ...

use the same addends to write two different equations with the same sum.

Content Standard 1.OA.B.3
Mathematical Practices MP.2, MP.3, MP.4, MP.7

You can change the order of the addends. The sum is the same.

4 and 2 is 6.

2 and 4 is 6.

$4 + 2 = 6$

$2 + 4 = 6$

You can write 2 addition equations.

4 plus 2 equals 6.

2 plus 4 equals 6.

$$\begin{array}{r} 4 \\ +\ 2 \\ \hline 6 \end{array} \qquad \begin{array}{r} 2 \\ +\ 4 \\ \hline 6 \end{array}$$

Do You Understand?

Show Me! How can you use cubes to show that $5 + 3$ is the same as $3 + 5$?

Guided Practice

Color to change the order of the addends. Then write the addition equations.

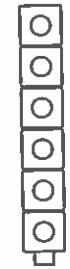
1.

$3 + 2 = 5$

___ + ___ = ___

2.

___ + ___ = ___



___ + ___ = ___

Name _____

Independent Practice

Write the sum. Then change the order of the addends. Write the new addition equation.

3. 2 + 6 = ____

____ + ____ = ____

4. 3 + 6 = ____

____ + ____ = ____

5. ____ = 1 + 7

____ = ____ + ____

6. 4 + 3 = ____

____ + ____ = ____

7. 4 + 5 = ____

____ + ____ = ____

8. 4 + 2 = ____

____ + ____ = ____

Number Sense Use the numbers on the cards to write 2 addition equations.

9. 1 6 5

____ + ____ = ____

____ + ____ = ____

10. 7 9 2

____ = ____ + ____

____ = ____ + ____

Math Practices and Problem Solving

Solve each problem below.

11. © MP.4 Model Rico and Nate collect 3 cans on Monday. On Tuesday, they collect 7 more. How many cans did they collect in all?

Draw a picture. Then write 2 different addition equations.

____ + ____ = ____

____ + ____ = ____

12. Higher Order Thinking

Draw a picture of 4 fish.
Make some blue.
Make the rest red.

Write 2 addition equations to tell about the picture.

____ + ____ = ____

____ + ____ = ____

13. © Assessment Look at the 2 addition equations. Which is the missing addend?

$8 = \_?\_ + 2$

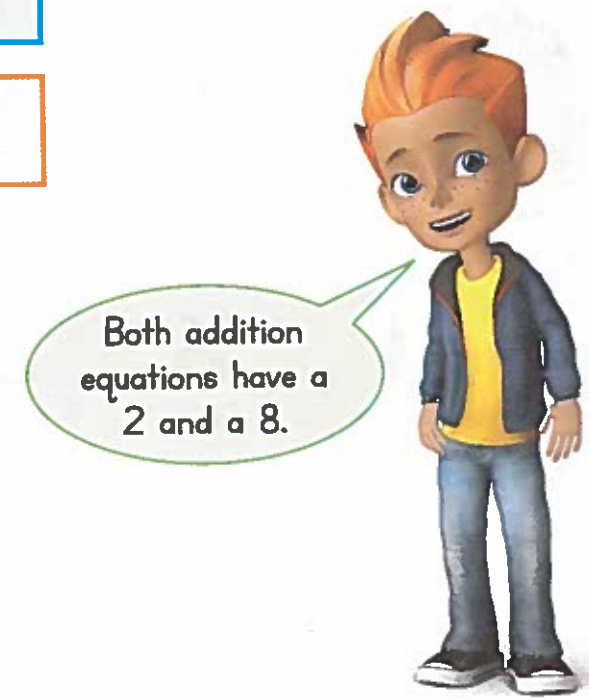
$8 = 2 + \_?\_$

Ⓐ 6

Ⓑ 7

Ⓒ 8

Ⓓ 9

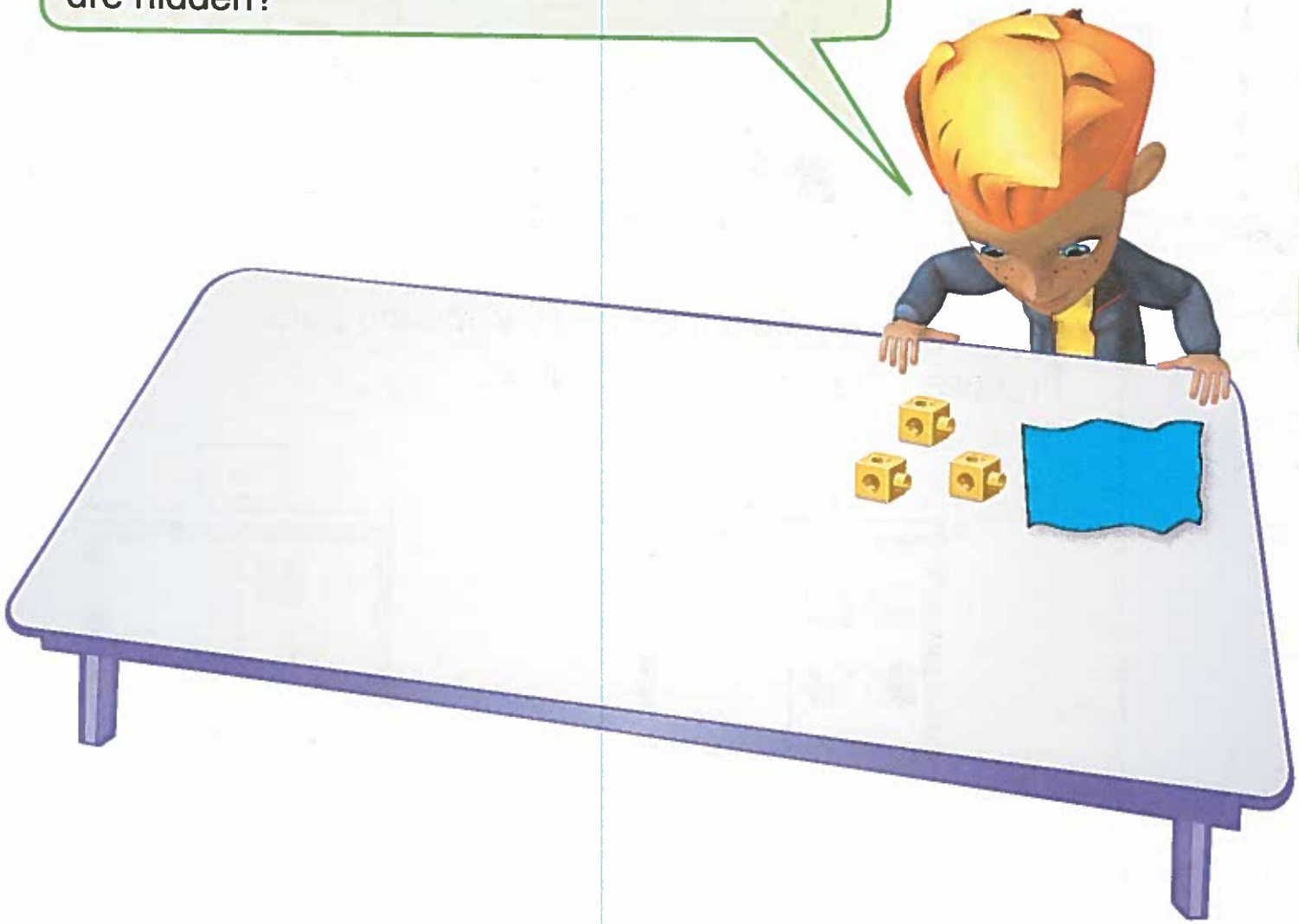


Name _____

Solve

Solve & Share

Alex has 5 connecting cubes on the table. He hides some cubes. How can you use numbers to show how many cubes are hidden?



Step Up to Grade 1

Lesson 4

Introducing Subtraction Expressions and Equations

I can ...

write equations to find the missing part of a whole.

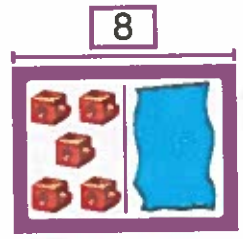
Content Standard 1.OA.C.6
Mathematical Practices MP.2, MP.4

Learn Glossary

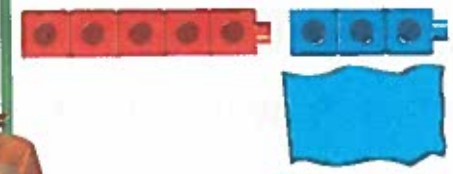
Alex has 8 cubes. He hides some cubes.

5 is the part you see. What is the hidden part?

You can describe the whole as 8 and one of the parts as 5. Find the hidden part by writing 8 – 5.



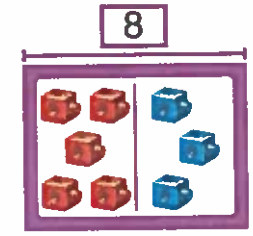
You can **subtract** to find the **difference**. 8 – 5 is 3.



3 is the hidden part. It is the difference.

You can write an equation.

$8 - 5 = 3$



8 minus 5 equals 3.

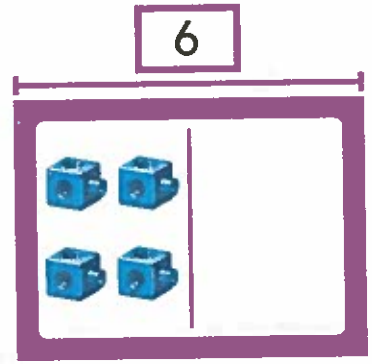
Do You Understand?

Show Me! The whole is 9. One of the parts is 3. How can you find the difference?

Guided Practice

Complete the model. Write the parts. Then write an equation.

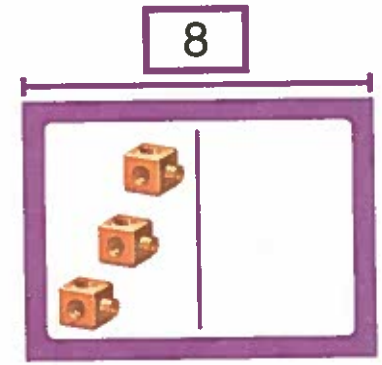
1.



6 – 4

6 – 4 = 2

2.



___ – ___

___ = ___ – ___

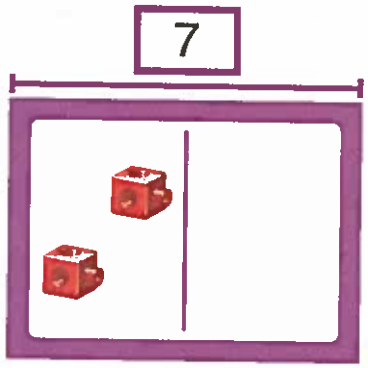
Name _____

Tools Assessment

Independent Practice

Complete the model. Write the parts. Then write a subtraction sentence.

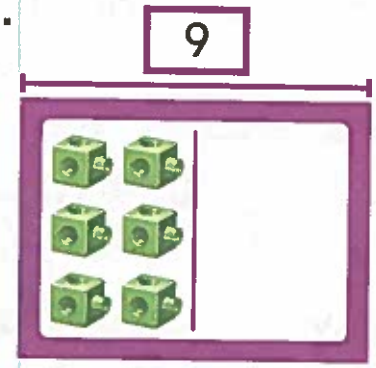
3.



___ – ___

___ – ___ = ___

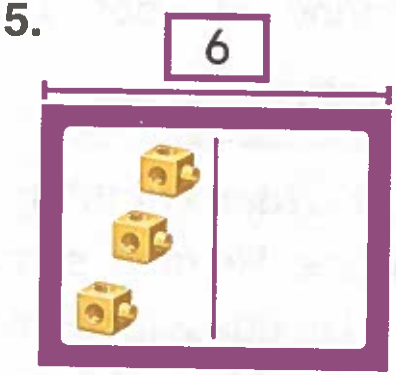
4.



___ – ___

___ – ___ = ___

5.



___ – ___

___ = ___ – ___

6. **Higher Order Thinking** There are 7 kittens in all. 1 is inside a basket. The rest are outside. How many kittens are outside the basket?

Draw a picture to show the story. Then write the missing part.

7 – ___ = 1

Math Practices and Problem Solving

Solve each problem below.

7. **MP.2 Reasoning** Lena has 8 rocks. She drops 4 of the rocks into a pond.

How many rocks does Lena have now?

_____ rocks

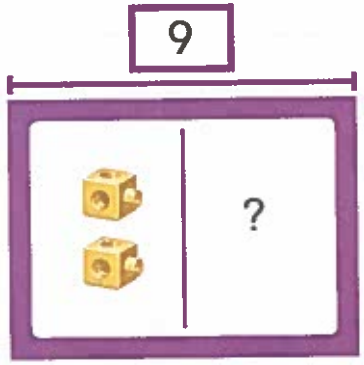
8. **MP.1 Make Sense** Tony picks 7 flowers. He gives 4 flowers to his sister.

How many flowers does Tony still have?

_____ flowers

9. **Higher Order Thinking** Rob has 9 marbles. He gave some marbles to a friend. He has 2 marbles left. How many marbles did Rob give to his friend?

Choose the subtraction sentence that matches the story.



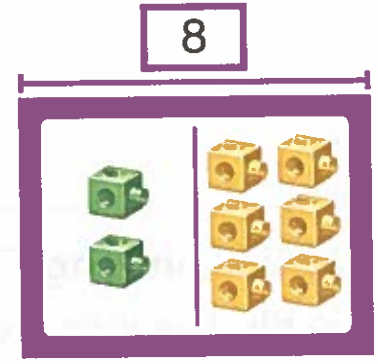
Ⓐ $9 - 3 = 6$

Ⓑ $9 - 2 = 7$

Ⓒ $7 - 3 = 4$

Ⓓ $7 - 2 = 5$

10. **Assessment** Write a subtraction story and a subtraction sentence about the model.



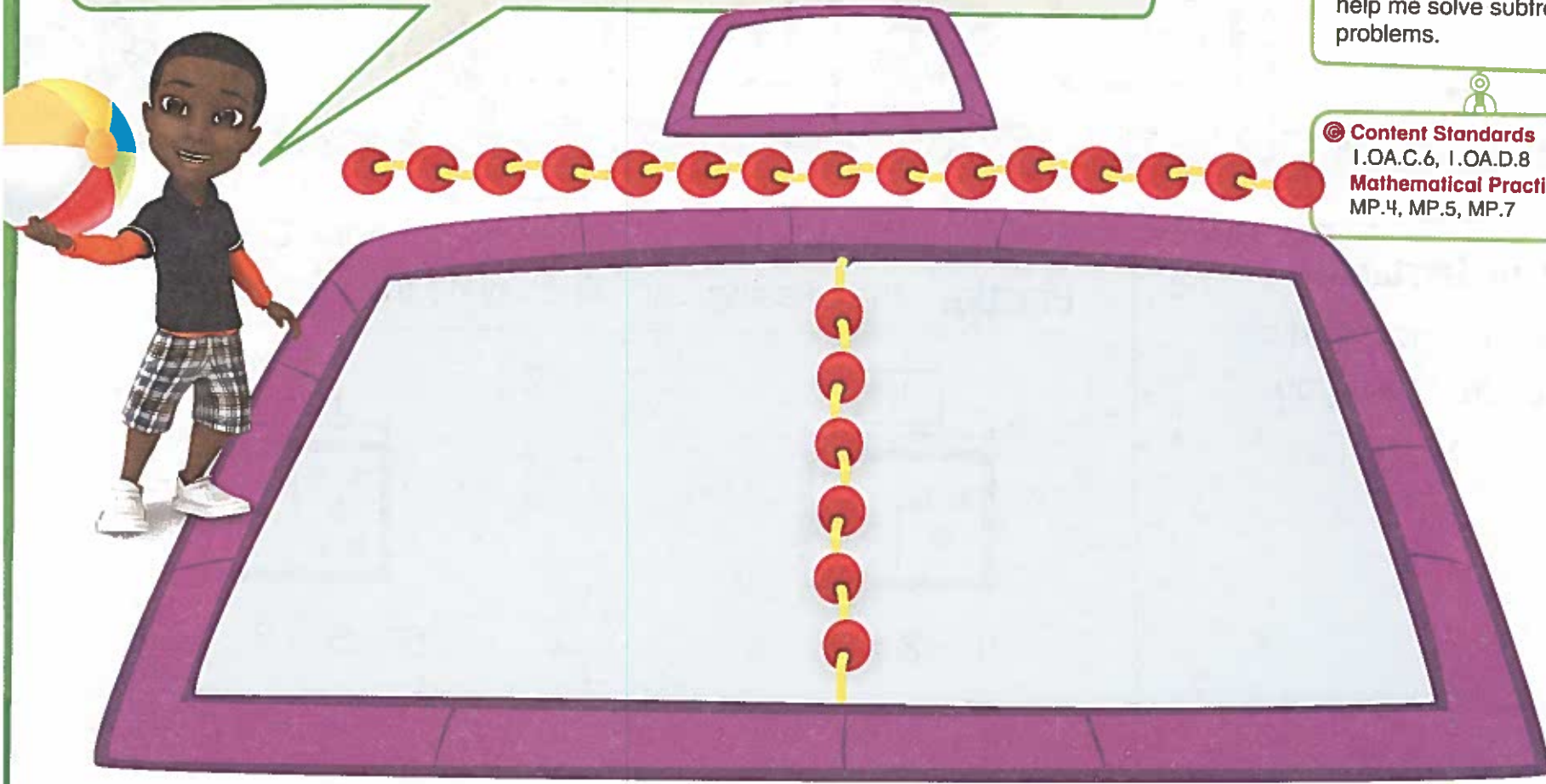
_____ − _____ = _____

Name _____

Solve & Share

Jenna has 6 beach balls. 4 of them blow to the other side of the pool. How many does she have left?

How can you use an addition fact to find the answer to 6 − 4 = ____? Use counters to help you solve the problem.



____ + ____ = ____ So, ____ − ____ = ____.

Step Up to Grade 1

Lesson 5
Think Addition to Subtract

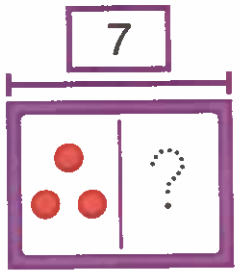
I can ...
use addition facts I know to help me solve subtraction problems.

Content Standards 1.OA.B.4, 1.OA.C.6, 1.OA.D.8
Mathematical Practices MP.2, MP.4, MP.5, MP.7

Learn Glossary

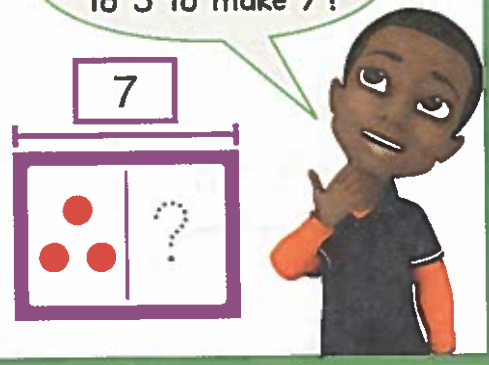
You can use addition to help you subtract.

$7 - 3 = \square$



$3 + \square = 7$

What can I add to 3 to make 7?



$3 + 4 = 7$

The missing part is 4.

Think of the addition fact to solve the subtraction equation.

$7 - 3 = 4$

$3 + 4 = 7$

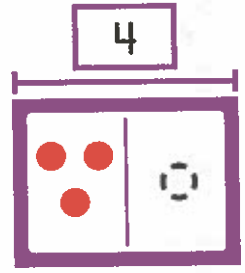
Do You Understand?

Show Me! How can an addition fact help you solve $7 - 6$?

Guided Practice

Think addition to help you subtract. Draw the missing part. Then write the numbers.

1.

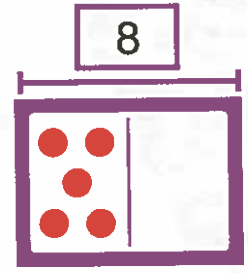


$4 - 3 = ?$

$3 + \_\_\_\_ = 4$

So, $4 - 3 = \_\_\_\_$.

2.



$8 - 5 = ?$

$5 + \_\_\_\_ = 8$

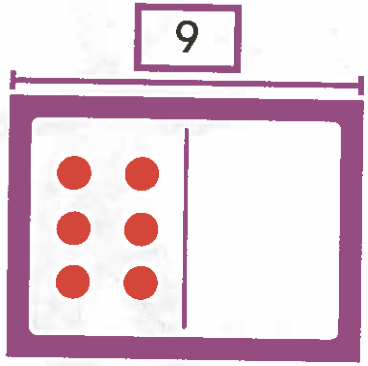
So, $8 - 5 = \_\_\_\_$.

Name _____

Independent Practice

Think addition to help you subtract. Draw the missing part. Then write the numbers.

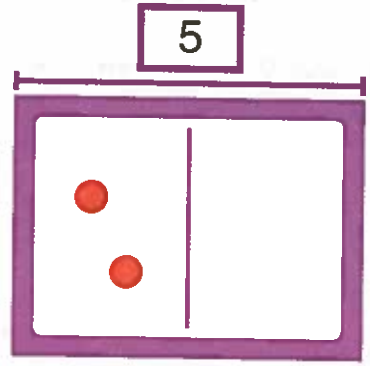
3.



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

So, $9 - 6 = \_\_\_\_$.

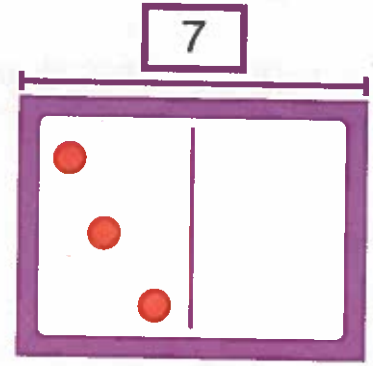
4.



$2 + \_\_\_\_ = 5$

So, $5 - 2 = \_\_\_\_$.

5.



$3 + \_\_\_\_ = 7$

So, $7 - 3 = \_\_\_\_$.

6. Higher Order Thinking Draw the shape to complete the equation.

If  +  =  ,

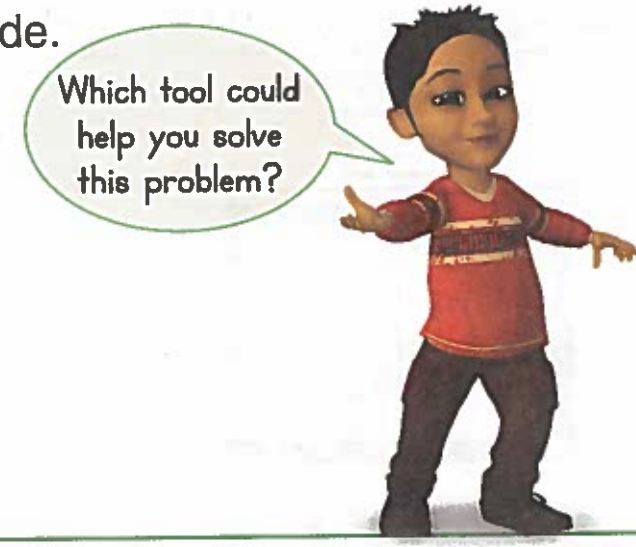
then  −  = _____.

Math Practices and Problem Solving

Write an addition and a subtraction equation to solve.

7. © MP.5 Use Tools Claire needs 9 tickets to get on a ride. She has 4 tickets. She needs some more tickets.

How many tickets does Claire still need? You can use tools to solve.

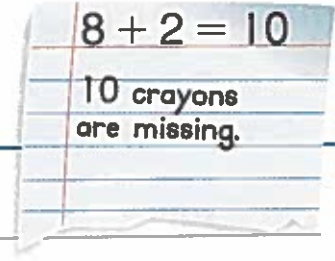


____ + ____ = ____

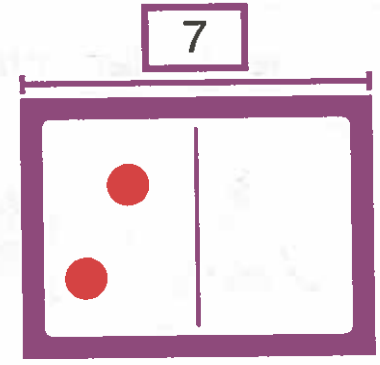
____ − ____ = ____

____ tickets

8. Higher Order Thinking Erin has a box that holds 8 crayons. 2 crayons are inside the box. She uses addition to find how many are missing. Is Erin correct? Explain.



9. © Assessment Which addition facts can help you solve the problem? Choose all that apply.



$7 - 2 = ?$

- ☐ $5 + 2 = 7$
- ☐ $3 + 4 = 7$
- ☐ $2 + 5 = 7$
- ☐ $6 + 1 = 7$

Name _____

Solve

Step Up to Grade 1

Lesson 6
Add Three Numbers

I can ...
find different strategies to add three numbers.

Content Standards 1.OA.B.3, 1.OA.A.2
Mathematical Practices MP.2, MP.3, MP.4, MP.7

Solve & Share

Carlos made stacks of 6 books, 4 books, and 6 books. How can you use addition to find the number of books in all 3 stacks?

Write 2 different equations to show how many books in all.

_____ + _____ + _____ = _____

_____ + _____ + _____ = _____

Learn Glossary

You can add 3 numbers.

$8 + 6 + 2$

Pick 2 numbers to add first.

You can make 10.

$8 + 6 + 2 = 16$

10

$8 + 2 = 10$
$10 + 6 = 16$

You can make a double.

$8 + 6 + 2 = 16$

8

$6 + 2 = 8$
$8 + 8 = 16$

You can add any 2 numbers first.

3, 5 → 8

$8 + 4 = 12$

3, 5 → 9

$9 + 4 = 12$

The sums are the same.

Do You Understand?

Show Me! Why can you pick any 2 numbers to add first when you add 3 numbers?

Guided Practice

Add the circled numbers first. Write their sum in the box. Then write the sum of all 3 numbers.

1. $2 + 7 + 3 = 12$

9

$2 + 7 + 3 = 12$

10

2. $6 + 5 + 4 = \_\_\_\_$

$6 + 5 + 4 = \_\_\_\_$

Name _____

Tools Assessment

Independent Practice

Circle 2 numbers to add first. Write their sum in the box at the right. Then write the sum of all 3 numbers.

3.
$$\begin{array}{r} 6 \\ 5 \\ +\ 1 \\ \hline \square \end{array}$$ ☐

4.
$$\begin{array}{r} 5 \\ 4 \\ +\ 8 \\ \hline \square \end{array}$$ ☐

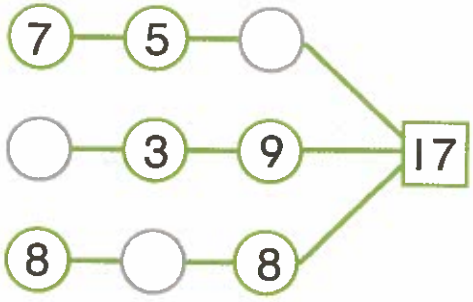
5.
$$\begin{array}{r} 2 \\ 7 \\ +\ 4 \\ \hline \square \end{array}$$ ☐

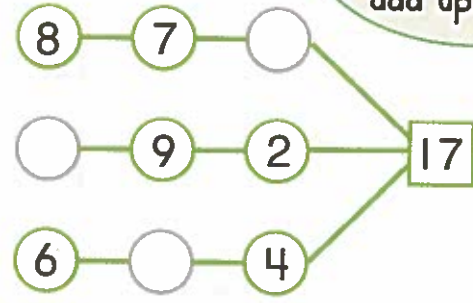
6.
$$\begin{array}{r} 7 \\ 2 \\ +\ 7 \\ \hline \square \end{array}$$ ☐

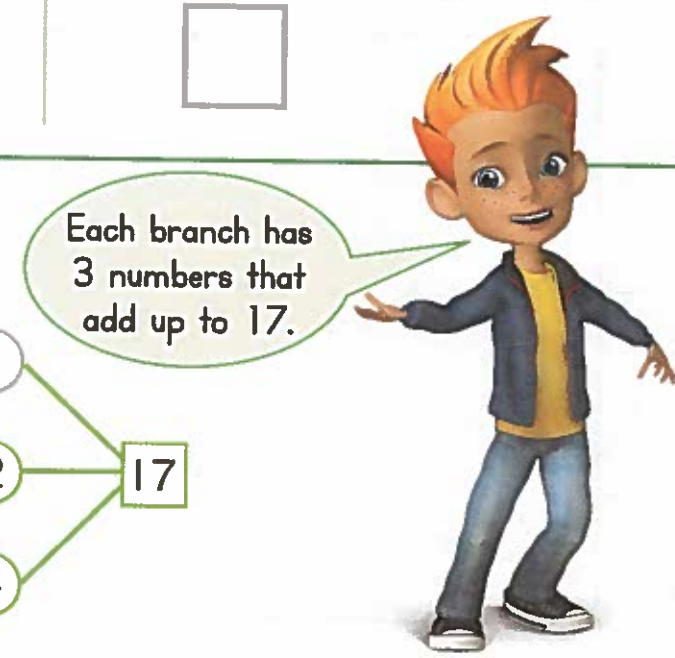
7.
$$\begin{array}{r} 5 \\ 3 \\ +\ 7 \\ \hline \square \end{array}$$ ☐

8.
$$\begin{array}{r} 4 \\ 6 \\ +\ 4 \\ \hline \square \end{array}$$ ☐

9. Number Sense Find the missing numbers.
The numbers on each branch add up to 17.



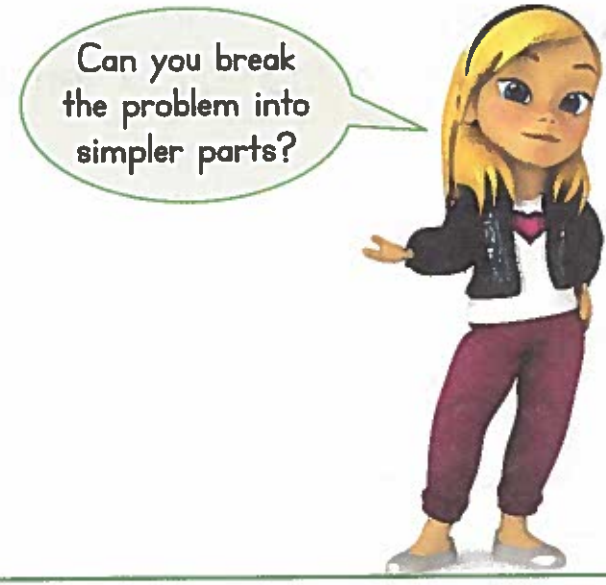




Math Practices and Problem Solving

Write an equation to solve each problem below.

10. **© MP.7 Look for Patterns** Oscar puts 9 books on a shelf and 3 books on another shelf. Then he puts 1 book on the last shelf. How many books did Oscar put on all three shelves?



____ + ____ + ____ = ____

____ books

11. **Higher Order Thinking** Explain how to add 9 + 6 + 1. Use pictures, numbers, or words.

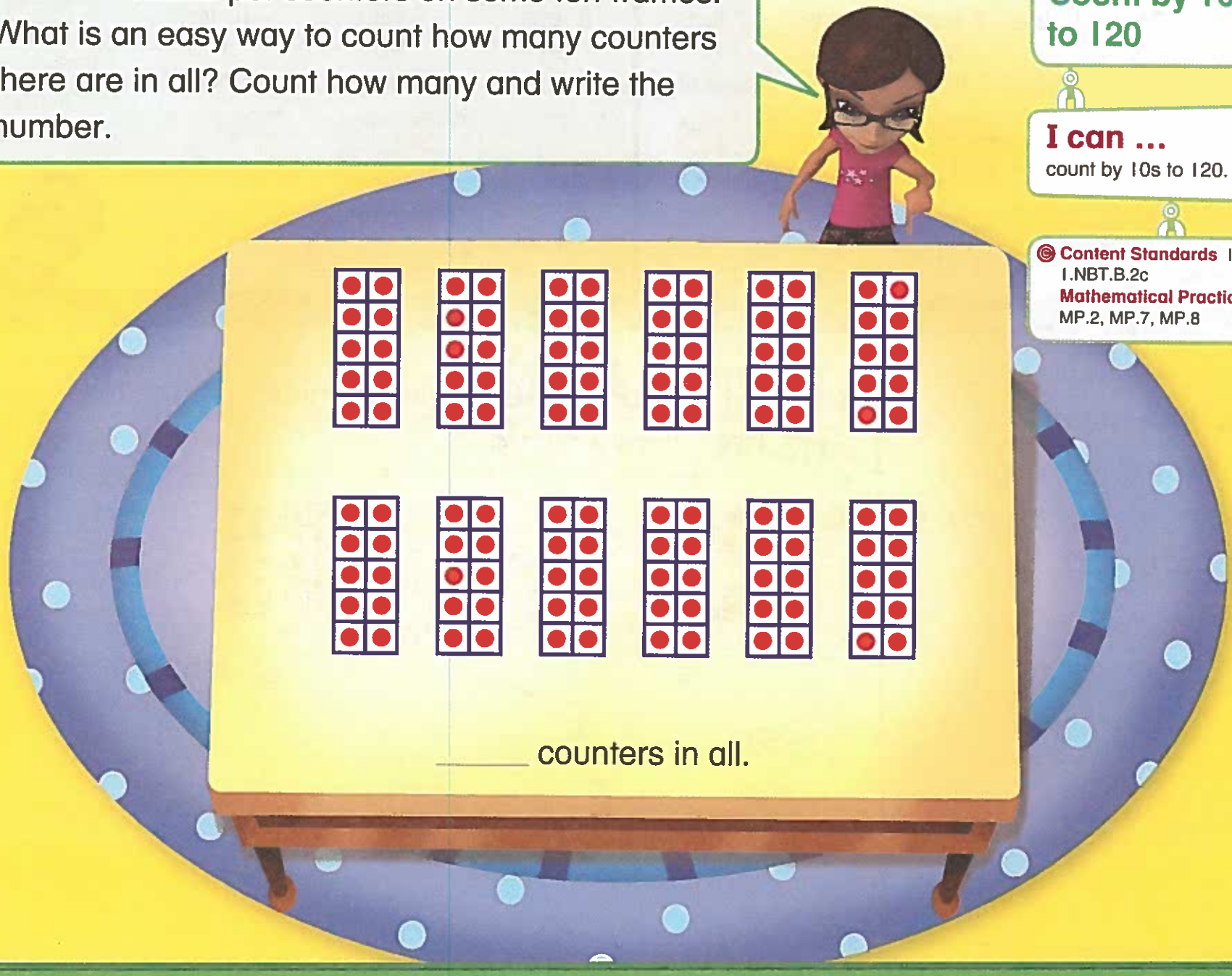
12. **© Assessment** Andre buys 7 pencils, 5 markers, and 3 pens. He wants to know how many items he bought in all. He added 7 + 3 first. What should Andre add next? Explain.

Name _____

Solve

Solve & Share

Marta put counters on some ten-frames. What is an easy way to count how many counters there are in all? Count how many and write the number.



_____ counters in all.

Step Up to Grade 1

Lesson 7
Count by 10s to 120

I can ...
count by 10s to 120.

Content Standards 1.NBT.A.1, 1.NBT.B.2c
Mathematical Practices MP.1, MP.2, MP.7, MP.8

Let's count by 10s.

1 ten	2 tens	3 tens	4 tens	5 tens	6 tens	7 tens
10	20	30	40	50	60	70
ten	twenty	thirty	forty	fifty	sixty	seventy

8 tens	9 tens	10 tens
80	90	100
eighty	ninety	one hundred

11 tens is 110. One hundred ten

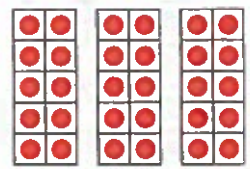
12 tens is 120. One hundred twenty

Do You Understand?

Show Me! When might it be better to count by 10s instead of by 1s?

Guided Practice

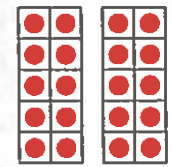
Count by 10s. Write the numbers and the number word.

1. 

3 tens

30

thirty

2. 

____ tens

____

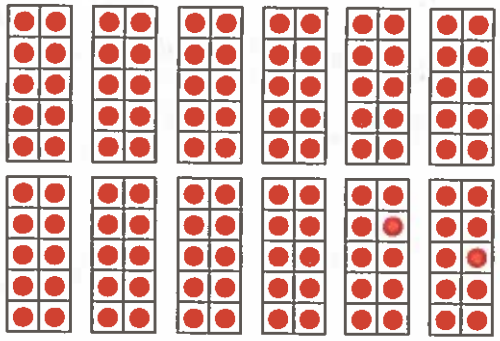
____

Name _____

Tools Assessment

Independent Practice

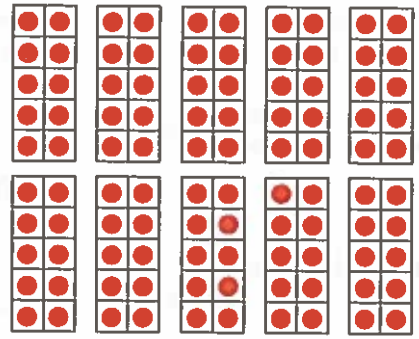
Count by 10s. Write the numbers and the number word.

3. 

_____ tens

_____

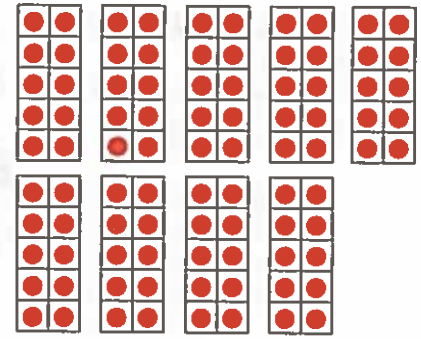
_____

4. 

_____ tens

_____

_____

5. 

_____ tens

_____

_____

Write the missing numbers.

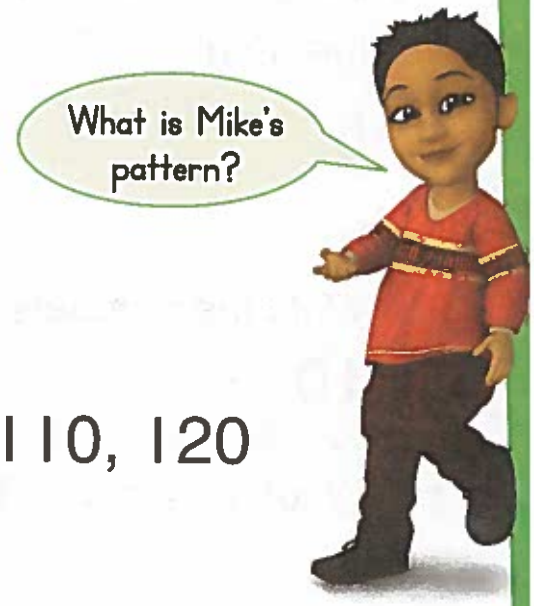
6. **Higher Order Thinking**

Mike writes a pattern.

He forgets to write some numbers.

What numbers did Mike forget to write?

10, 20, 30, _____, _____, 60, 70, _____, 90, _____, 110, 120



Math Practices and Problem Solving Draw counters in the ten-frames to solve each problem below. Then write the numbers and the number word.

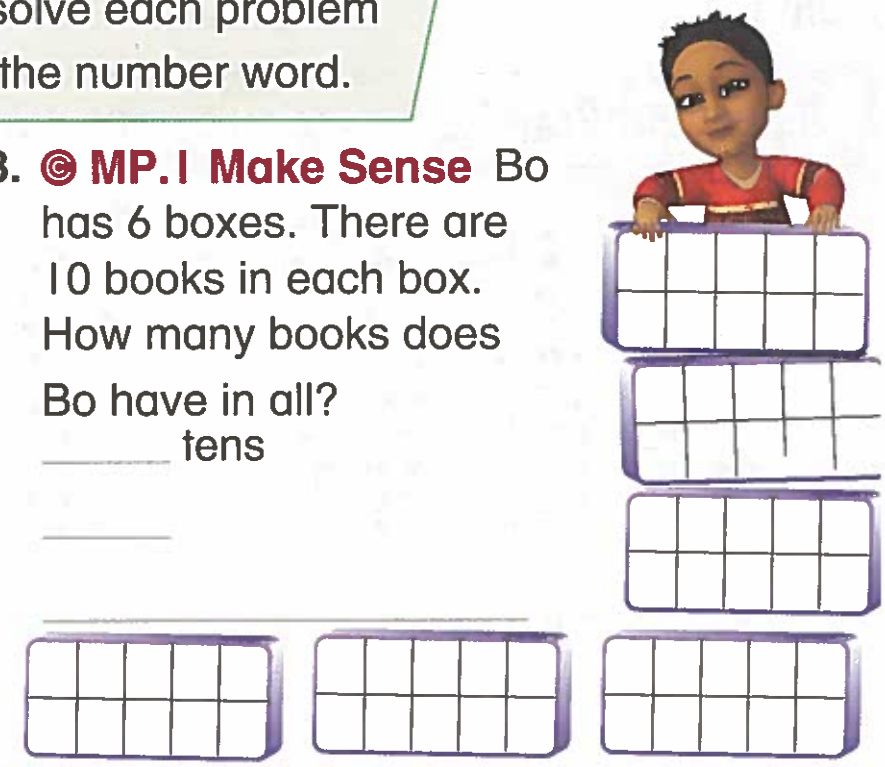
7. © MP.2 Reasoning Leah has 4 boxes. 10 books are in each box. How many books does Leah have in all?

_____ tens

_____

_____

8. © MP.1 Make Sense Bo has 6 boxes. There are 10 books in each box. How many books does Bo have in all?



_____ tens

_____

_____

9. Higher Order Thinking Cory counts by 5s to 50. Kobe counts by 10s to 50. Write the numbers Cory says.

5, _____, _____, _____, _____,

_____, _____, _____, _____, 50

Write the numbers Kobe says.

10, _____, _____, _____, 50

What numbers do both boys say?

_____, _____, _____, _____, _____

10. © Assessment Marisol has some books. She puts them in piles of 10. Which number does NOT show how many books Marisol could have?

Ⓐ 30

Ⓑ 40

Ⓒ 45

Ⓓ 50

Name _____

Solve & Share

Jada and Alex take turns counting by 1s. Jada counts from 98 up to 100. Now, it's Alex's turn to keep counting. Say the next 3 numbers Alex should count. Tell how you know you're right.

98, 99, 100

_____, _____, _____

Step Up to Grade 1

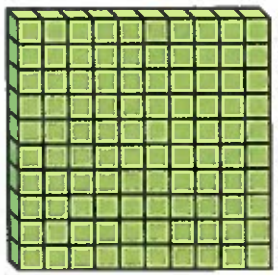
Lesson 8
Count by 1s to 120

I can ...
count by 1s to 120.

Content Standards 1.NBT.A.1
Mathematical Practices MP.2, MP.6, MP.7

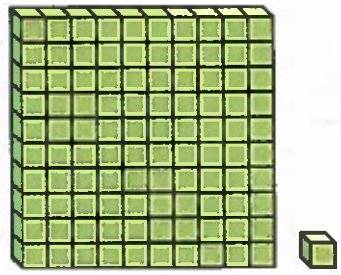
This block shows 100. You say one hundred for this number.

100



The next number you say is one hundred one because you have 1 hundred and 1 one.

101



When you count forward, you keep counting by 1s.

101, 102, 103, 104, 105

When you count higher, you start with the words one hundred.

116, 117, 118, 119, 120

Do You Understand?

Show Me! How would you say and show 110 when you count? What number comes next?

Guided Practice

Count forward by 1s. Write the numbers.

1. 98, 99, 100, 101, 102

2. _____, _____, 93, _____, 95

3. 112, _____, _____, 115, _____

Name _____

Tools Assessment

Independent Practice

Count forward by 1s. Write the numbers.

4. 97, _____, _____, _____, 101

5. _____, 104, _____, _____, 107

6. _____, 117, _____, 119, _____

7. _____, 101, 102, _____, _____

8. _____, _____, 111, _____, 113

9. 111, _____, _____, 114, _____

Use the clues to find each mystery number.

10. **Number Sense** Clue 1: The number comes after 112. Clue 2: The number comes before 116.
The mystery number might be:

_____, _____, _____

Clue 3: The number has 4 ones.
Circle the mystery number.

11. **Number Sense** Clue 1: The number comes before 120. Clue 2: The number comes after 114.
The mystery number might be:

_____, _____, _____, _____, _____

Clue 3: The number has 7 ones.
Circle the mystery number.

Math Practices and Problem Solving

Solve each problem below.

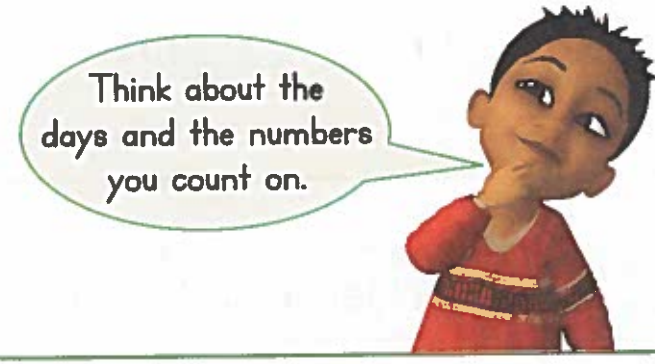
12. **Vocabulary** Marta is counting to 120. She says the number that is one **more** than 117. What number does she say?

13. In this chart, Manuel writes the numbers 105 to 111 in order. Then he spills water on it. Some numbers rub off. Help Manuel fill in the missing numbers.

105		107	108			111

14. **MP.2 Reasoning** Savannah hikes 1 mile every day. After hiking on Monday, she has hiked 102 miles. After hiking on Friday, how many miles will she have hiked?

_____ miles



15. **Higher Order Thinking** Pick a number greater than 100 and less than 116. Write the number in the box.

Then write the three numbers that come before it and the number that comes after it.

_____, _____, _____, ☐, _____

16. **Assessment** Which shows the correct order for counting forward by 1s? Choose all that apply.

- ☐ 100, 101, 103, 102
- ☐ 115, 116, 117, 118
- ☐ 104, 105, 106, 107
- ☐ 115, 116, 119, 120

Name _____

Solve

Step Up to Grade 1

Lesson 9
Tens and Ones

I can ...
count and write numbers by tens and ones.

Content Standards 1.NBT.B.2
Mathematical Practices MP.2, MP.4

Solve & Share

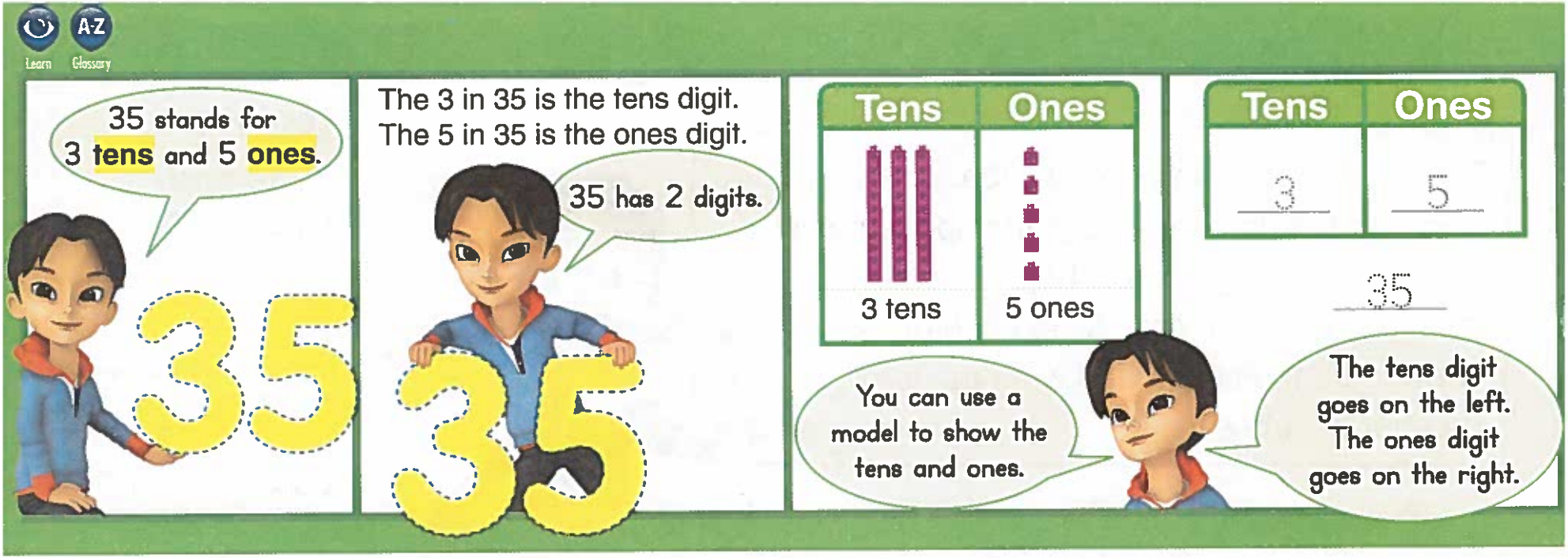
Guess how many cubes are in your bag. Then empty the bag in the space below. Without counting each cube, guess how many cubes there are. Write each guess. Now count the cubes and write the total number of cubes.

Guess 1: ____ cubes

Guess 2: ____ cubes

Actual number:

____ cubes



Do You Understand?

Show Me! How are these numbers alike? How are they different?

46 64

Guided Practice

Count the tens and ones. Then write the numbers.

1.

Tens	Ones
2	5

25

2.

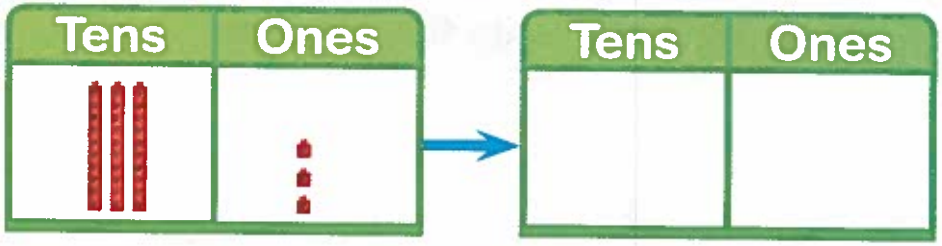
Tens	Ones

Name _____

Independent Practice

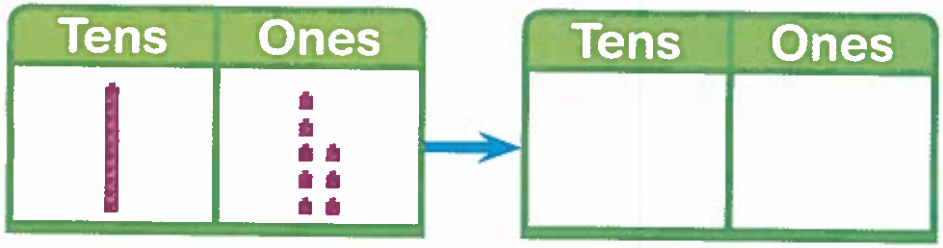
Count the tens and ones. Then write the numbers.

3.



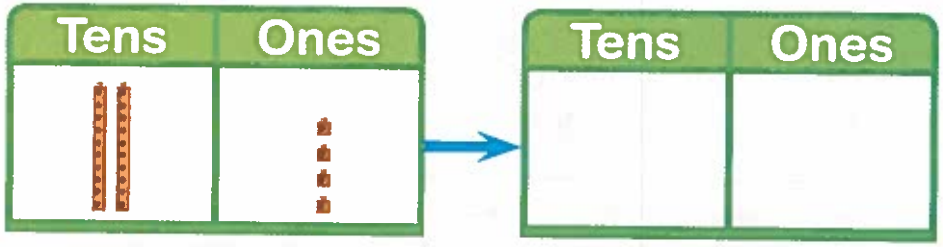
_____

4.



_____

5.



_____

Draw a picture to solve.
Write the number.

6. **Higher Order Thinking** Mary has a number. It has the same number of tens and ones. What could Mary's number be?

Math Practices and Problem Solving

Solve each problem below.

7. © MP.4 Use Tools Sam has juice boxes at his party. There are 4 packages of 10 and 8 extra juice boxes.

How many juice boxes are there in all?

Write the number of tens and ones. Then write the total number of juice boxes.

Tens	Ones

_____ juice boxes

8. Higher Order Thinking Draw a picture to show a number greater than 25 and less than 75. Then write the number.

My number is _____.

9. © Assessment There are 19 juice cartons. Which model shows the number of juice cartons?

Tens	Ones
1	9

○

Tens	Ones
3	4

○

Tens	Ones
2	9

○

Tens	Ones
9	1

○

Name _____

Solve

Step Up to Grade 1

Lesson 10

1 More, 1 Less; 10 More, 10 Less

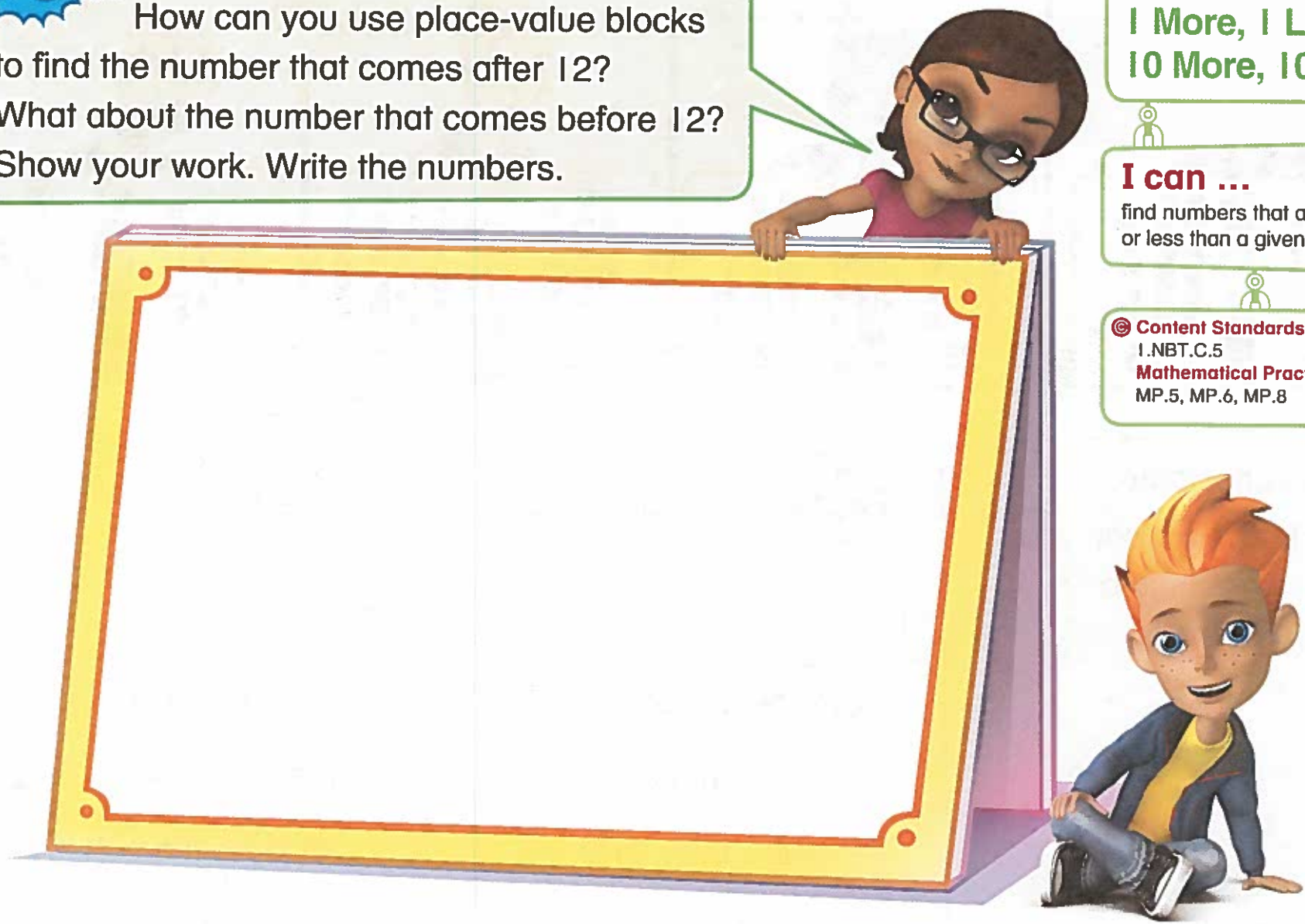
I can ...

find numbers that are more or less than a given number.

© **Content Standards** 1.NBT.B.3, 1.NBT.C.5
Mathematical Practices MP.2, MP.5, MP.6, MP.8

Solve & Share

How can you use place-value blocks to find the number that comes after 12? What about the number that comes before 12? Show your work. Write the numbers.

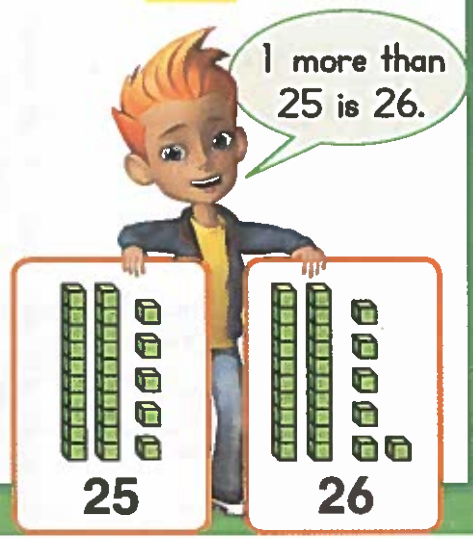


The number after 12 is _____.

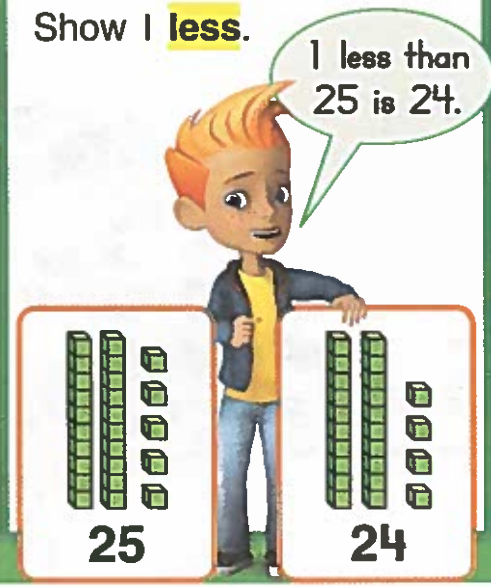
The number before 12 is _____.

Learn Glossary

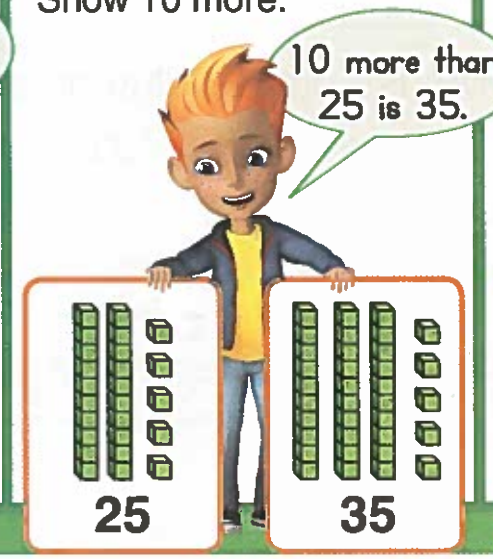
Show 1 **more**.



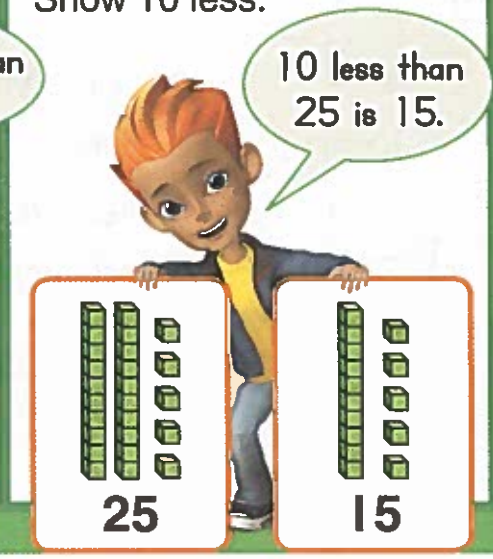
Show 1 **less**.



Show 10 more.



Show 10 less.



Do You Understand?

Show Me! How can you find 10 more than a number?

Guided Practice

Complete each sentence.
Use place-value blocks if needed.

1. 34

1 more than 34 is 35.

1 less than 34 is 33.

10 more than 34 is 44.

10 less than 34 is 24.

2. 14

1 more than 14 is _____.

1 less than 14 is _____.

10 more than 14 is _____.

10 less than 14 is _____.

Name _____

Tools Assessment

Independent Practice

Complete each sentence. Use place-value blocks if needed.

3. 71

1 more than 71 is _____.

1 less than 71 is _____.

10 more than 71 is _____.

10 less than 71 is _____.

4. 50

1 more than 50 is _____.

1 less than 50 is _____.

10 more than 50 is _____.

10 less than 50 is _____.

5. 19

1 more than 19 is _____.

1 less than 19 is _____.

10 more than 19 is _____.

10 less than 19 is _____.

6. 49

1 more than 49 is _____.

1 less than 49 is _____.

10 more than 49 is _____.

10 less than 49 is _____.

7. 85

1 more than 85 is _____.

1 less than 85 is _____.

10 more than 85 is _____.

10 less than 85 is _____.

8. 42

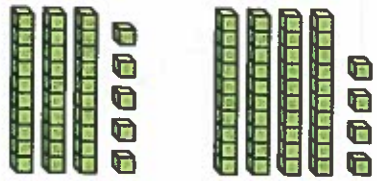
1 more than 42 is _____.

1 less than 42 is _____.

10 more than 42 is _____.

10 less than 42 is _____.

9. Higher Order Thinking Circle the picture that shows 10 more than 34. Explain how you know.



_____

_____

_____

Math Practices and Problem Solving

Solve each problem below.

10. **MP.8 Generalize** Marlon wants to write instructions to tell his friend how to find 10 more than any number. What instructions should Marlon write?

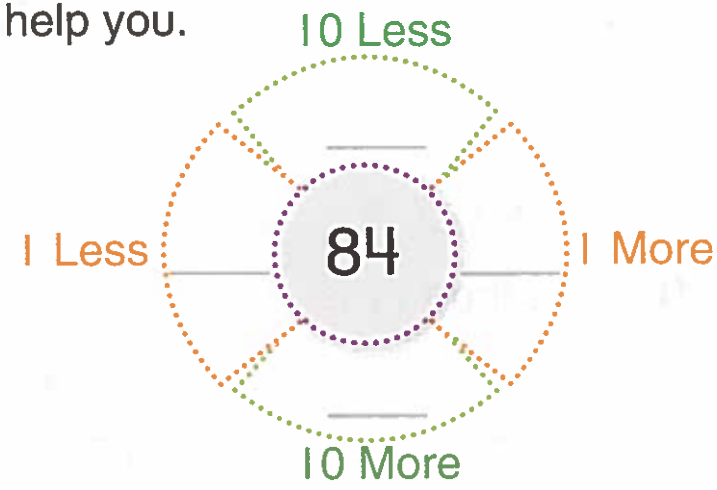
_____

_____

_____

_____

11. **Number Sense** Fill in the missing numbers. Use place-value blocks to help you.



12. **Higher Order Thinking** Write and solve a riddle for a number greater than 70 and less than 90. Use "1 more than" and "1 less than" or "10 more than" and "10 less than" as clues.

Clues: _____

_____

_____

My number is _____.

13. **Assessment** Match each number with its description.

38	10 more than 23
3	1 less than 19
18	1 more than 37
33	10 less than 13
65	10 more than 55