School-Home
Letter

Dear Family,

My class started Chapter 5 this week. In this chapter, I will learn how addition and subtraction are related. I will also learn how to identify and use related facts.

Love, _____

Vocabulary

related facts Related facts are facts that have the same parts and whole.

$$5 + 7 = 12$$
$$12 - 7 = 5$$

Home Activity

Make a poster with your child like the one below. Each day, write a different related fact. As you progress, leave spaces blank for your child to find missing numbers.

$$\_\_ + 3 = 5 \qquad 5 - 2 = 3$$
$$3 + \_\_ = 5 \qquad 5 - 3 = 2$$

Literature

Look for these books in a library. Read them together to reinforce learning.

Elevator Magic
by Stuart J. Murphy.
HarperCollins, 1997.

Animals on Board
by Stuart J. Murphy.
HarperCollins, 1998.

Carta
para la casa

Querida familia:

Mi clase comenzó el Capítulo 5 esta semana. En este capítulo, aprenderé cómo se relacionan la suma y la resta. También aprenderé cómo identificar las operaciones relacionadas.

Con cariño, _____

Vocabulario

Operaciones relacionadas Las operaciones relacionadas son operaciones que usan los mismos números.

$$5 + 7 = 12$$
$$12 - 7 = 5$$

Actividad para la casa

Haga un cartel con su hijo como el que está abajo. Cada día, escriba una operación relacionada distinta. A medida que avanzan, deje espacios en blanco para que su hijo complete los números que faltan.

$$\_\_ + 3 = 5 \qquad 5 - 2 = 3$$
$$3 + \_\_ = 5 \qquad 5 - 3 = 2$$

Literatura

Busque estos libros en una biblioteca. Léanlos juntos para reforzar el aprendizaje.

Elevator Magic por Stuart J. Murphy. Harper Collins, 1997.

Animals on Board Por Stuart J. Murphy. Harper Collins, 1998.
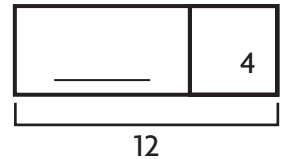
Add or Subtract

COMMON CORE STANDARD—1.OA.1
Represent and solve problems involving addition and subtraction.

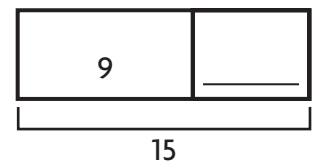## Make a model to solve.

1. Stan has 12 pennies.

Some pennies are new.

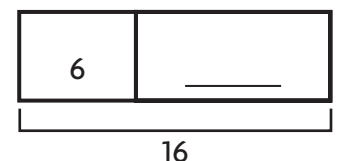4 pennies are old.

How many pennies are new?

_____	4

12

_____ new pennies

2. Liz has 9 toy bears.

Then she buys some more.
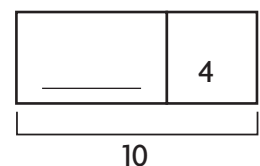
Now she has 15 toy bears.

How many toy bears did she buy?

9	_____

15

_____ toy bears

3. Eric buys 6 books.

Now he has 16 books.

How many books did he have to start?

6	_____

16

_____ books

4. Cho has 10 rings.

Some rings are silver.

4 rings are gold.

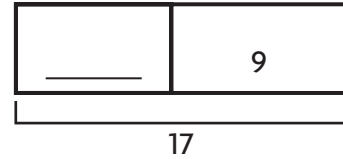How many rings are silver?

_____	4

10

_____ silver rings

Lesson Check (1.OA.1)

Use the model to solve.

1. Arlo has 17 bean bag animals.
Some are fuzzy.
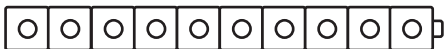9 bean bag animals are not fuzzy.
How many animals are fuzzy?

_____	9

17

_____ fuzzy animals

. . . .

Spiral Review (1.OA.1, 1.OA.5)

2. Count back 1, 2, or 3.
Write the difference.

$$\_\_\_ = 11 - 3$$

. . . .

3. Use 🎲 🎲. Color to show how to make ten.
Complete the addition sentence.

o	o	o	o	o	o	o	o	o	o

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

Record Related Facts

COMMON CORE STANDARD—1.OA.6
Add and subtract within 20.

Use [ ] [ ]. Add or subtract. Complete
the related facts.

1.
$4 + \boxed{} = 12$ $\boxed{} - 8 = 4$

$8 + 4 = \boxed{}$ $\boxed{} - \boxed{} = \boxed{}$

2.
$\boxed{} + 4 = 9$ $9 - 4 = \boxed{}$

$\boxed{} + 5 = 9$ $\boxed{} - \boxed{} = \boxed{}$

3.
$9 + 7 = \boxed{}$ $16 - 7 = \boxed{}$

$7 + \boxed{} = 16$ $\boxed{} - \boxed{} = \boxed{}$

4.
$\boxed{} + 6 = 14$ $14 - \boxed{} = 8$

$6 + 8 = \boxed{}$ $\boxed{} - \boxed{} = \boxed{}$

Problem Solving *Real World*

Choose a way to solve.
Write or draw to explain.

5. There are 16 apples on
the tree. No apples fall off.
How many apples are still on the tree?

_____ apples

Lesson Check

1. Write a related fact.

$$7 + 4 = 11$$
$$4 + 7 = 11$$

$$11 - 7 = 4$$

$$\boxed{} - \boxed{} = \boxed{}$$

Spiral Review

2. Complete the subtraction sentence.

$$6 - 6 = \underline{\hphantom{00}}$$

3. Write an addition sentence that helps you solve $15 - 9$.

$$\underline{\hphantom{00}} + \underline{\hphantom{00}} = \underline{\hphantom{00}}$$

Identify Related Facts

COMMON CORE STANDARD—1.OA.6
Add and subtract within 20.

Add and subtract.
Circle the related facts.

1. $5 + 6 =$ ___

$11 - 6 =$ ___

2. $4 + 9 =$ ___

$9 - 4 =$ ___

3. $4 + 7 =$ ___

$11 - 7 =$ ___

4. $9 + 8 =$ ___

$17 - 8 =$ ___

5. $5 + 7 =$ ___

$7 - 5 =$ ___

6. $6 + 8 =$ ___

$14 - 8 =$ ___

7. $4 + 6 =$ ___

$10 - 5 =$ ___

8. $9 + 5 =$ ___

$14 - 5 =$ ___

Problem Solving Real World

9. Use the numbers to write related addition
and subtraction sentences.

6   7   8   9   15   16   17

___ + ___ = ___   ___ - ___ = ___

Lesson Check

I. Write a related fact for $7 + 6 = 13$.

___ ◯ ___ = ___

Spiral Review

2. Draw lines to match. Subtract to compare.
How many fewer 🪶 than 🐦 are there?
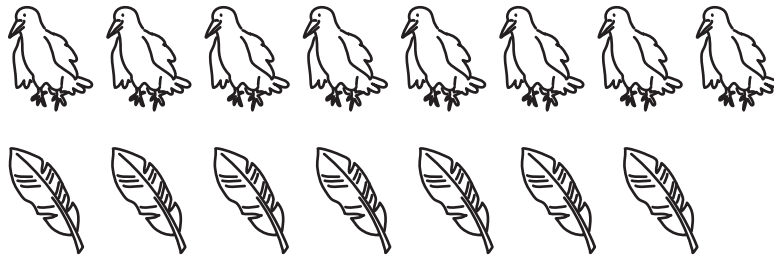
___ − ___ = ___   ___ fewer 🪶

3. Use doubles to help you add $7 + 8$.

___ + ___ + ___
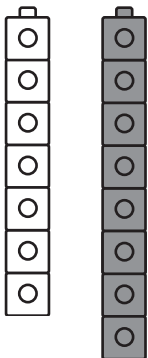
So, $7 + 8 = $ ___.

$7 + 8$

Use Addition to Check Subtraction

Subtract. Then add to check your answer.

1. $12 - 4 = \boxed{}$

   $\boxed{} + 4 = \boxed{}$

2. $15 - 9 = \boxed{}$

   $\boxed{} + 9 = \boxed{}$

3. $17 - 8 = \boxed{}$

   $\boxed{} + 8 = \boxed{}$

4. $14 - 6 = \boxed{}$

   $\boxed{} + 6 = \boxed{}$

Problem Solving Real World

Subtract.
Then add to check your answer.

5. There are 13 grapes in a bowl.
   Justin ate some of them.
   Now there are only 7 grapes left.
   How many grapes did Justin eat?

   ____ − ____ = ____   ____ grapes.

   ____ + ____ = ____

Lesson Check

1. Subtract. Then add to check your answer.

$$11 - 3 = \boxed{}$$

____ + ____ = ____

2. Subtract. Then add to check your answer.

$$12 - 8 = \boxed{}$$

____ + ____ = ____

Spiral Review

3. Jonas picks 10 peaches.
4 peaches are small.
The rest are big.
How many are big?

	4
____	

10
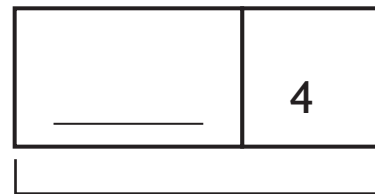
____ big peaches

4. Circle two addends to add first. Write the sum.

$$\begin{array}{r} 3 \\ 3 \\ +\ 4 \\ \hline \end{array}$$

_____

_____

Algebra • Unknown Numbers

Write the missing numbers.
Use [cube] [cube] if you need to.

1. $6 + \boxed{} = 13$

$13 - 6 = \boxed{}$

2. $9 + \boxed{} = 14$

$14 - 9 = \boxed{}$

3. $\boxed{} + 7 = 15$

$15 - 7 = \boxed{}$

4. $\boxed{} + 3 = 12$

$12 - \boxed{} = 3$

5. $\boxed{} = 9 + 8$

$8 = \boxed{} - 9$

6. $\boxed{} = 8 + 8$

$8 = \boxed{} - 8$

Problem Solving (Real World)

Use cubes or draw a picture to solve.

7. Sally has 9 toy trucks.
She gets 3 more toy trucks.
How many toy trucks does
she have now?

_____ toy trucks

Lesson Check (1.OA.8)

1. Write the unknown number.

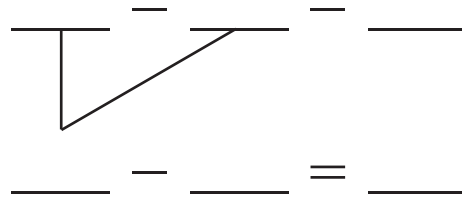$$9 + \boxed{} = 16$$

Spiral Review (1.OA.3, 1.OA.6)

2. What is $14 - 6$?

Step 1

Step 2

So, $14 - 6 = \underline{\quad}$.

3. Draw circles to show the number.
Write the sum. $0 + 8$

$$0 + 8 = \underline{\quad}$$

Name _____

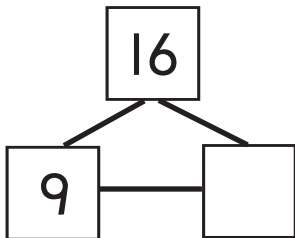# Algebra • Use Related Facts

COMMON CORE STANDARD—1.OA.8
Work with addition and subtraction equations.
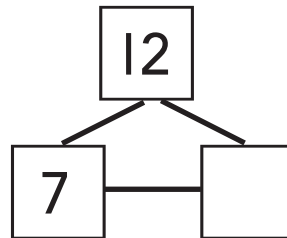
Write the missing numbers.

1. Find $16 - 9$.

$9 + \boxed{} = 16$

16

$16 - 9 = \boxed{}$

9 ___ ___

2. Find $12 - 7$.

$7 + \boxed{} = 12$

12

$12 - 7 = \boxed{}$

7 ___ ___

3. Find $15 - 6$.

$6 + \boxed{} = 15$

15

$15 - 6 = \boxed{}$

6 ___ ___

4. Find $18 - 9$.

$9 + \boxed{} = 18$

18

$18 - 9 = \boxed{}$

9 ___ ___
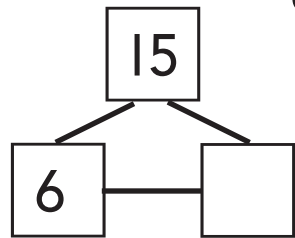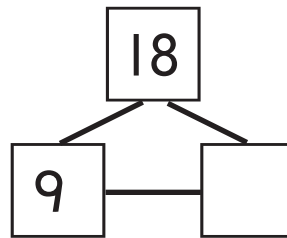
Problem Solving Real World

Look at the shapes in the addition sentence.
Draw a shape to show a related subtraction fact.

5.

⬛ + ⬜ = ◢   ◢ − _____ = ⬛

Lesson Check

1. Write an addition fact that helps you solve $12 - 4$.

_____ + _____ = _____

- -

Spiral Review

2. Circle the greater addend.
Count on to find the sum.

$$\begin{array}{r} 9 \\ +\ 3 \\ \hline \end{array}$$

- -

3. Draw to show the doubles fact.
Write the sum.
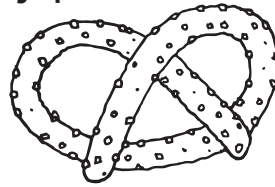
$$\begin{array}{r} 8 \\ +\ 8 \\ \hline \end{array}$$

Choose an Operation

COMMON CORE STANDARD—1.OA.1
Represent and solve problems involving addition and subtraction.

Circle add or subtract.
Write a number sentence to solve.

1. Adam has a bag of 11 pretzels. He eats 2 of the pretzels. How many pretzels are left?
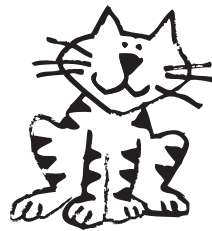
_____

add   subtract

____ pretzels

2. Greta makes 3 drawings. Kate makes 4 more drawings than Greta. How many drawings does Kate make?

_____

add   subtract

____ drawings

Problem Solving *Real World*

Choose a way to solve.
Write or draw to explain.

3. Greg has 11 shirts.
3 have long sleeves.
The rest have short sleeves.
How many short-sleeve shirts does Greg have?

____ short-sleeve shirts

Lesson Check (1.OA.1)

1. Circle add or subtract. Write a number sentence to solve. There are 18 children on the bus. Then 9 children get off. How many children are left on the bus?

add   subtract

_____ $\bigcirc$ _____ = _____

Spiral Review (1.OA.1, 1.OA.3)

2. Choose a way to solve. Draw or write to explain. Mike has 13 plants. He gives some away. He has 4 left. How many plants does he give away?

_____ plants

3. Write the numbers 3, 2, and 8 in an addition sentence. Show two more ways to find the sum.

_____ + _____ + _____ = _____

_____ + _____ = _____

_____ + _____ = _____

Algebra • Ways to Make Numbers to 20

COMMON CORE STANDARD—1.OA.6
Add and subtract within 20.

Use ⚀ ⚁ ⚀. Write ways to make the number at the top.

1.   10

$$2 + 7 + 1$$
$$5 + 5$$
$$10 - 0$$
$$9 \; \bigoplus \; 1$$

2.   13

$$\underline{} + \underline{} + \underline{}$$
$$\underline{} + \underline{}$$
$$\underline{} - \underline{}$$
$$\underline{} \; \bigcirc \; \underline{}$$

3.   16

$$\underline{} + \underline{} + \underline{}$$
$$\underline{} + \underline{}$$
$$\underline{} - \underline{}$$
$$\underline{} \; \bigcirc \; \underline{}$$

4.   12

$$\underline{} + \underline{} + \underline{}$$
$$\underline{} + \underline{}$$
$$\underline{} - \underline{}$$
$$\underline{} \; \bigcirc \; \underline{}$$

Problem Solving *Real World*

Write numbers to make each line have the same sum.

5.

5   2
6   7
4
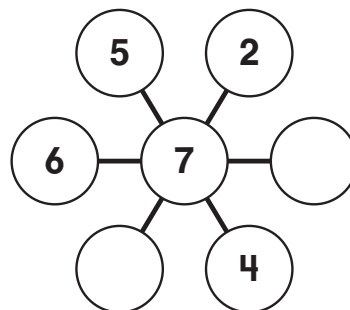
Lesson Check

1. Write ways to make 18.

18

___ + ___ + ___

___ + ___

___ − ___

___ (+) ___

2. Write ways to make 9.

9

___ + ___ + ___

___ + ___

___ − ___

___ (+) ___

Spiral Review

3. Write the doubles plus one fact for 7 + 7.

___ + ___ = ___
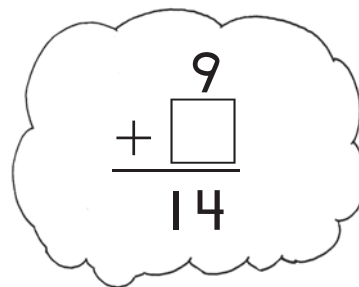
4. Write the doubles minus one fact for 4 + 4.

___ + ___ = ___

5. Think of an addition fact to help you subtract.

14
− 9
‾‾‾‾

9
+ ☐
‾‾‾
14

Algebra • Equal and Not Equal

COMMON CORE STANDARD—1.OA.7
Work with addition and subtraction equations.

Which are true? Circle your answers.
Which are false? Cross out your answers.

1. $6 + 4 = 5 + 5$

2. $10 = 6 - 4$

3. $8 + 8 = 16 - 8$

4. $14 = 1 + 4$

5. $8 - 0 = 12 - 4$

6. $17 = 9 + 8$

7. $8 + 3 = 8 - 3$

8. $15 - 6 = 6 + 9$

9. $12 = 5 + 5 + 2$

10. $7 + 6 = 6 + 7$

11. $5 - 4 = 4 + 5$

12. $0 + 9 = 9 - 0$

Problem Solving (Real World)

13. Which are true? Use a ⬜▷ to color.

$15 = 15$	$12 = 2$	$3 = 8 - 5$
$15 = 1 + 5$	$9 + 2 = 2 + 9$	$9 + 2 = 14$
$1 + 2 + 3 = 3 + 3$	$5 - 3 = 5 + 3$	$13 = 8 + 5$

Lesson Check (1.OA.7)

1. Circle the number sentences that are true.
Cross out the ones that are false.

$4 + 3 = 9 - 2$ $\qquad\qquad$ $4 + 3 = 9 + 2$

$4 + 3 = 4 - 3$ $\qquad\qquad$ $4 + 3 = 6 + 1$

Spiral Review (1.OA.2, 1.OA.6)

2. Use 5, 6 and 11 to write related
addition and subtraction sentences.

___ $\oplus$ ___ $\ominus$ ___

___ $\oplus$ ___ $\ominus$ ___

___ $\ominus$ ___ $\ominus$ ___

___ $\ominus$ ___ $\ominus$ ___

3. Solve. Draw or write to show your work.
Leah has 4 green toys, 5 pink toys,
and 2 blue toys. How many toys does Leah have?

_____ toys

___ ◯ ___ ◯ ___ ◯ ___

Name _____

Facts Practice to 20

COMMON CORE STANDARD—1.OA.6
Add and subtract within 20.

Add or subtract.

1.
$$\begin{array}{r} 4 \\ + 9 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 13 \\ - 6 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 8 \\ + 7 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 11 \\ - 6 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 17 \\ - 8 \\ \hline \end{array}$$

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

8.
$$\begin{array}{r} 13 \\ - 5 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 16 \\ - 9 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 3 \\ + 8 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 7 \\ + 6 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 9 \\ - \square \\ \hline 7 \end{array}$$

14.
$$\begin{array}{r} 6 \\ + \square \\ \hline 10 \end{array}$$

15.
$$\begin{array}{r} 8 \\ - \square \\ \hline 3 \end{array}$$

16.
$$\begin{array}{r} 6 \\ + \square \\ \hline 12 \end{array}$$

17.
$$\begin{array}{r} 0 \\ + \square \\ \hline 9 \end{array}$$

18.
$$\begin{array}{r} 15 \\ - \square \\ \hline 6 \end{array}$$

Problem Solving Real World

Solve. Draw or write to explain.

19. Kara has 9 drawings.
She gives 4 away. How many
drawings does Kara have now?

_____ drawings

Lesson Check (1.OA.6)

1. Add or subtract.

$$\begin{array}{r} 14 \\ -\ 7 \\ \hline \end{array} \qquad \begin{array}{r} 15 \\ -\ 6 \\ \hline \end{array} \qquad \begin{array}{r} 8 \\ +\ 7 \\ \hline \end{array} \qquad \begin{array}{r} 5 \\ +\ 8 \\ \hline \end{array}$$

Spiral Review (1.OA.3, 1.OA.8)

2. What is the missing number?
Write the missing addend.

$7 + \boxed{} = 12$

3. Greg knows $7 + 4 = 11$. What other
addition fact does he know that
shows the same addends?
Write the new fact.

___ + ___ = ___