Subtraction Facts to 12

Review What You Know
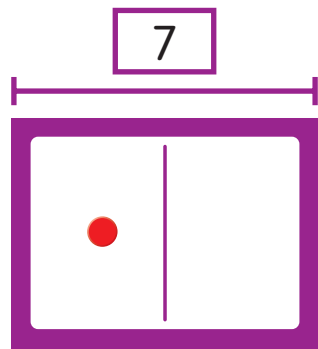
Add.

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

2. $5 + 6 = \underline{}$

Write a subtraction sentence to find the missing part.

3.

| 7 |

_____ − _____ = _____

Write a subtraction sentence to solve.

4. Mr. Black made 8 muffins. The children ate 2 of them. How many muffins are left?

_____ − _____ = _____

Home-School Connection

Dear Family,

Today my class started Topic 7, **Subtraction Facts to 12.** I will learn different ways to subtract numbers from 12. Here are some of the new math words I will be learning and some things we can do to help me with my math.

Love,

_____

Book to Read

Reading math stories reinforces concepts. Look for this title in your local library:

**Turtle Splash!
by Cathryn Falwell**
(Greenwillow, 2001)

Home Activity

Provide your child with 12 pennies or paper clips. Divide the items into 2 piles and ask your child to write one addition sentence and one subtraction sentence about the piles.

$6 + 6 = 12$

$12 − 6 = 6$

My New Math Words

0 less than
0 less than 8 is 8.

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

$$8 − 0 = 8$$

1 less than
1 less than 8 is 7.

① ② ③ ④ ⑤ ⑥ ⑦

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

$$8 − 1 = 7$$

2 less than
2 less than 8 is 6.

① ② ③ ④ ⑤ ⑥

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

$$8 − 2 = 6$$

Field Day

How to Play

1. Take turns. Spin the spinners.
2. Add the number on Spinner 2 to the number on Spinner 1.
3. Move your marker that number of spaces. If you land on a red space, follow the directions.

What You Need

2 small game markers
2 paper clips
2 pencils

Drop an egg. Go back 2.

Float a boat. Go back 1.

Run fast. Go ahead 4.

START!

FINISH!

Spinner 1

0 1 2

Spinner 2

3 4 8 5 7 6

Good catch. Go ahead 1.

Name _____

Subtracting with 0, 1, 2

I less than | 2 less than | 0 less than

2 3 1 4 9 5 8 6 7

1. _____ less than _____ is _____ .

2. _____ less than _____ is _____ .

3. _____ less than _____ is _____ .
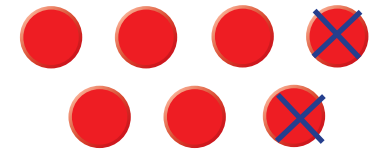
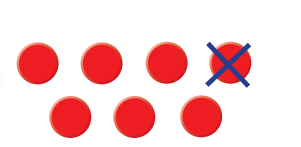When you subtract 2, think **2 less than**.

2 less than 7 is 5.

$$7 - 2 = 5$$

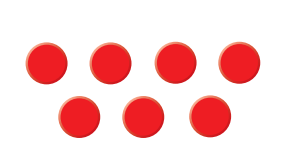When you subtract 1, think **1 less than**.

1 less than 7 is 6.

$$\begin{array}{r} 7 \\ -1 \\ \hline 6 \end{array}$$

When you subtract 0, think **0 less than**.

0 less than 7 is 7. The number stays the same.

$$\begin{array}{r} 7 \\ -0 \\ \hline 7 \end{array}$$

Guided Practice

Complete the subtraction fact.
Fill in the sentence.

1.
$$\begin{array}{r} 4 \\ -1 \\ \hline \boxed{3} \end{array}$$
1 less than 4 is ____ .

2.
$$\begin{array}{r} 6 \\ -0 \\ \hline \end{array}$$
0 less than 6 is ____ .

3.
$$\begin{array}{r} 9 \\ -2 \\ \hline \end{array}$$
2 less than 9 is ____ .

4.
$$\begin{array}{r} 8 \\ -1 \\ \hline \end{array}$$
1 less than 8 is ____ .

Do you understand? What subtraction fact shows 2 less than 8?

Independent Practice

Fill in the sentence.
Write the subtraction fact.

Word Bank
0 less than   2 less than
1 less than

5.
1 less than 6 is ____ .

6.
0 less than 8 is ____ .

7.
2 less than 10 is ____ .

8.
1 less than 11 is ____ .

Algebra Find the mystery number.

9. It is 2 less than 11.
What is the number?

Mystery Number

Solve the problems below.

10. Manuel picks a number.
His number is 1 less than 8.
What is Manuel's number?
Write a subtraction
sentence to solve.

____ − ____ = ____

____

11. Betsy is thinking of a number.
It is 0 less than 10.
What is Betsy's number?
Write a subtraction
sentence to solve.

____ − ____ = ____

____

12. Jan had 8 tickets. She gave 2 tickets to her friends.
How many tickets does Jan have now?

____ tickets

Which number sentence helps you find the answer?
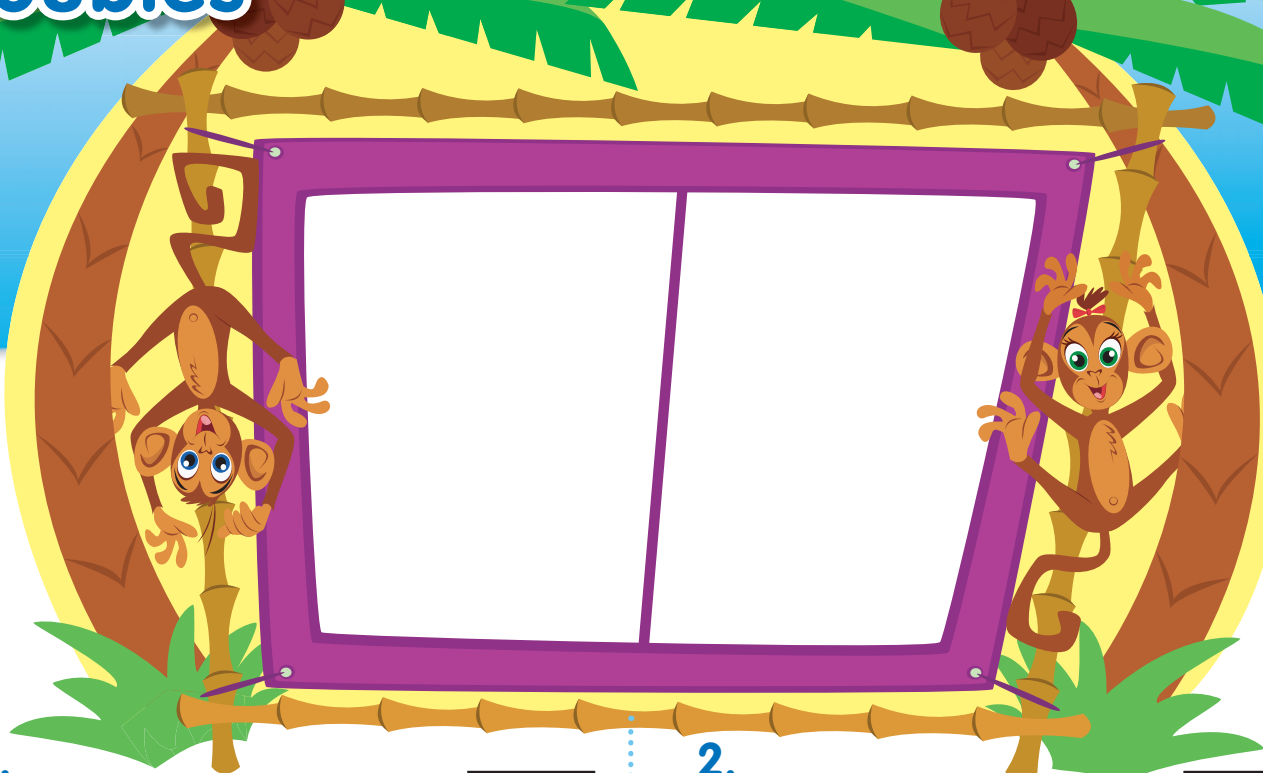
$8 - 2 = 6$ $8 + 2 = 10$ $8 - 1 = 7$ $8 - 0 = 8$

○   ○   ○   ○

13. **Journal** Write a 1 less subtraction sentence.
Write a story to match your sentence.

_____

_____

_____

FOLD

FOLD

Name _____

Thinking Addition with Doubles

1.

_____ + _____ = ▢

▢ − _____ = _____

2.

_____ + _____ = ▢

▢ − _____ = _____

3.

_____ + _____ = ▢

▢ − _____ = _____

4.

_____ + _____ = ▢

▢ − _____ = _____

Home Connection Your child identified numbers that are doubles, then he or she used addition facts for doubles to find related subtraction facts. **Home Activity** Write an even number from 2 through 18. Have your child write an addition doubles fact and a related subtraction fact for that number. For example, for the number 10, he or she should write $5 + 5 = 10$ and $10 - 5 = 5$.

NS 2.2 Use the inverse relationship between addition and subtraction to solve problems.
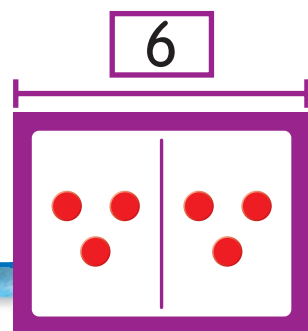Also **NS 2.1** .

2, 4, 6, 8, 10, 12

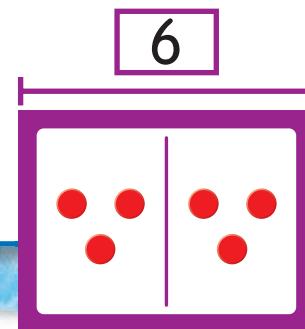*These are doubles.*

1, 3, 5, 7, 9, 11

These are not.

You know an addition fact for each double.

$$3 + 3 = 6$$

6

So you also know a subtraction fact for each double.

$$6 - 3 = 3$$

6

You can think addition to solve subtraction.

Doubles help.

You know $3 + 3 = 6$.
So you know $6 - 3 = 3$.

6 is double 3.

Guided Practice

Complete the addition fact.
Then use the addition fact to subtract.

1. $2 + 2 = \underline{4}$

$4 - 2 = \underline{2}$

2. $5 + 5 = \underline{\quad}$

$10 - 5 = \underline{\quad}$

3.
```
   6        12
+  6      −  6
-----    -----
 [  ]     [  ]
```

4.
```
   4         8
+  4      −  4
-----    -----
 [  ]     [  ]
```

Do you understand? Can you use a double fact to solve
$10 - 4$? Explain.

Independent Practice

Complete the addition fact.
Then use the addition fact to subtract.

5. $6 + 6 = \underline{\quad}$

$12 - 6 = \underline{\quad}$

6. $4 + 4 = \underline{\quad}$

$8 - 4 = \underline{\quad}$

7.
```
   3         6
+  3      −  3
-----    -----
 [  ]     [  ]
```

8.
```
   5        10
+  5      −  5
-----    -----
 [  ]     [  ]
```

Algebra Write the missing number in the triangle.

9. △ $+ 6 = 12$

10. $12 - 6 = $ △

Solve the problems below.

11. There are 6 bananas in a tree.
Double picks 3 bananas. How many bananas are still in the tree?
Write an addition sentence and a subtraction sentence.

_____ + _____ = _____

_____ − _____ = _____

_____ bananas

. . . .

12. There are 8 treats in a box.
Double eats 4 treats.
Trouble eats the rest.
How many treats did Trouble eat?
What addition fact can you use to help you find out?

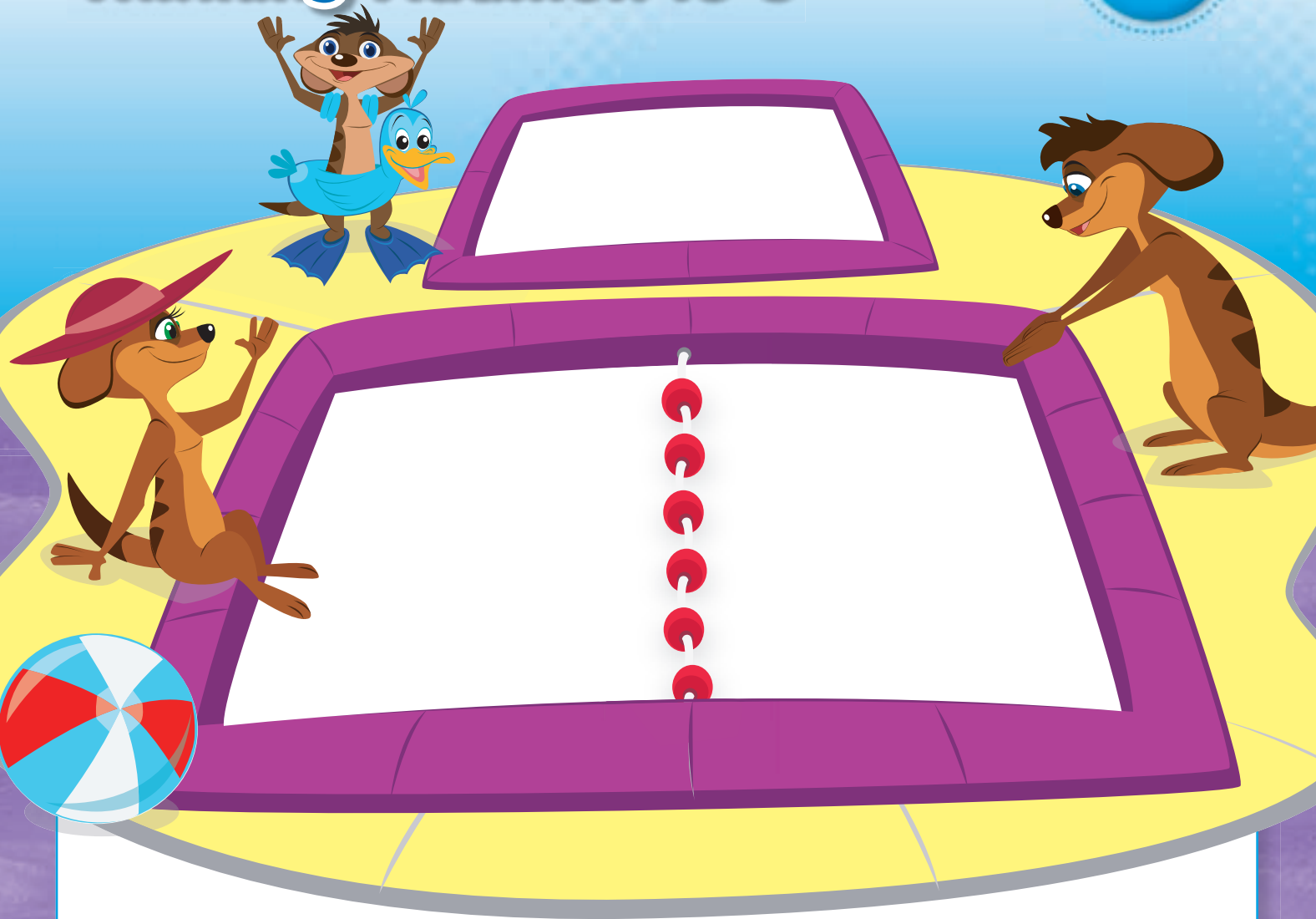$4 + 0 = 4$ ○ $4 + 4 = 8$ ○ $4 + 8 = 12$ ○ $8 + 4 = 12$ ○

. . . .

13. ✏️ **Journal** If $5 + 5 = 10$, then $10 - 5 = 5$.
Write your own if-then story about doubles.

_____

_____

Thinking Addition to 8

1.

___ + ___ = ___

So ___ − ___ = ___

2.

___ + ___ = ___

So ___ − ___ = ___

You can use addition to help you subtract.

$$7 - 3 = \boxed{?}$$

7
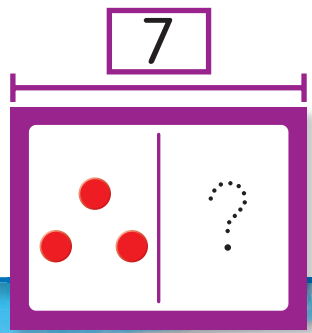
$$3 + \boxed{?} = 7$$

What can I add to 3 to make 7?

7

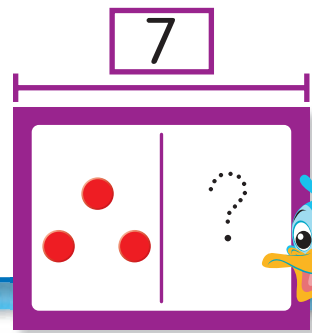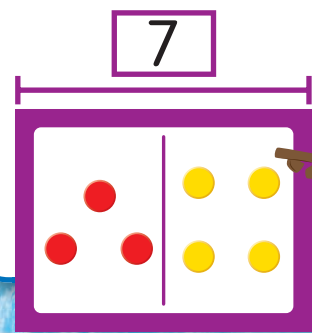$$3 + \boxed{4} = 7$$

The missing part is 4.

7

Think of the addition fact to solve the subtraction fact.
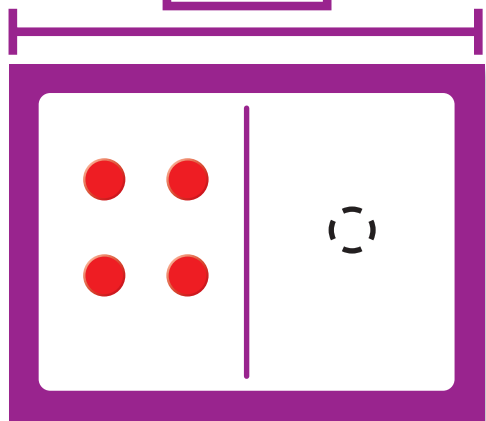
$3 + 4 = 7$

$$7 - 3 = \boxed{4}$$

Guided Practice

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

1.

5

$$4 + \underline{\quad} = 5$$

So $5 - 4 = \underline{\quad}$

2.

6
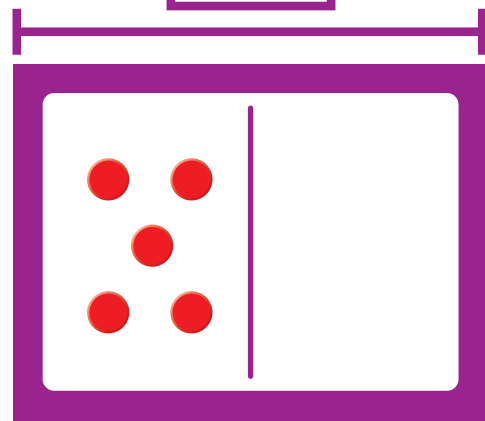
$$5 + \underline{\quad} = 6$$

So $6 - 5 = \underline{\quad}$

Do you understand? How can an addition fact help you find

$$7 - 6 = \boxed{} ?$$

Independent Practice

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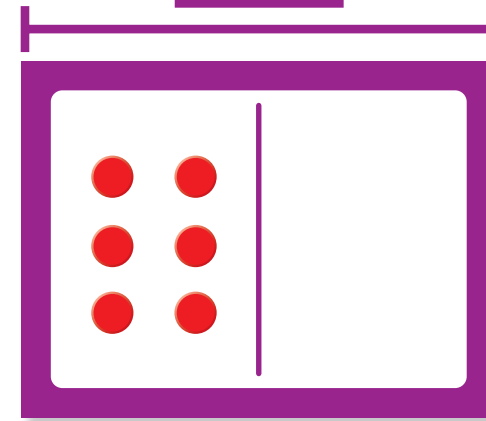Draw the missing part. Write the numbers.

3.
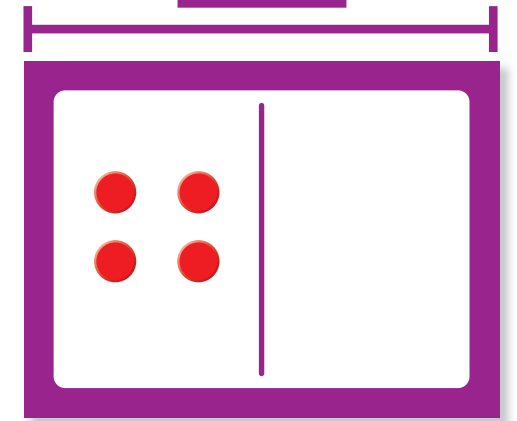
8

$$6 + \underline{\quad} = 8$$

So $8 - 6 = \underline{\quad}$

4.

7

$$4 + \underline{\quad} = 7$$

So $7 - 4 = \underline{\quad}$

Algebra Draw the shape to complete the sentence.

5.
If ⬤ + △ = ▢ , then ▢ − ⬤ = _____ .

Solve the problems below.

6. Pam needs 8 tickets to go on a ride at the fair. She has 6 tickets. How many more tickets does Pam need? Write an addition sentence and a subtraction sentence.

_____ + _____ = _____

_____ − _____ = _____

_____ tickets

7. Tom needs to toss 7 rings to win a prize.
He tosses 2 rings.
How many more rings does
Tom need to toss?
Which addition fact can help you subtract?

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

◯   ◯   ◯   ◯

8. **Journal** Kathy has a box that holds 6 crayons. 4 crayons are in the box. Kathy uses addition to find how many are missing. Is she correct? Explain.

$6 + 4 = 10$

I need 10 crayons.

_____

_____

_____

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FOLD
FOLD

Thinking Addition to 12

1.

___ + ___ = ___

So ___ − ___ = ___

2.

___ + ___ = ___

So ___ − ___ = ___

Home Connection Your child learned that every subtraction fact has a corresponding addition fact, which can be used to help solve subtraction problems to 12.
Home Activity Ask your child to explain how to solve various subtraction facts using an addition fact.

NS 2.2 Use the inverse relationship between addition and subtraction to solve problems.
Also **NS 2.0, NS 2.1** , **AF 1.1.**

Think addition to help you subtract.

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

9
5	?

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

What can I add to 5 to make 9?

9
5	?

$$5 + \boxed{4} = 9$$

4 is the missing part.

9
5	4
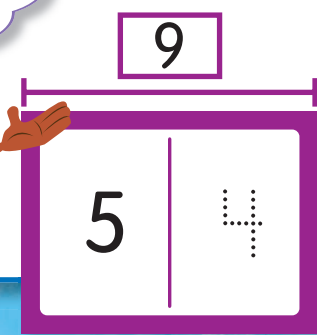
Think of the addition fact to solve the subtraction fact.

$5 + 4 = 9$, so $9 - 5 = 4$.

Guided Practice

Think addition to help you subtract. Write the missing part.

1.

9
7	

$$7 + \underline{2} = 9$$

so $9 - 7 = \underline{2}$

2.

10
6	

$$6 + \underline{} = 10$$

so $10 - 6 = \underline{}$

3.

12
4	

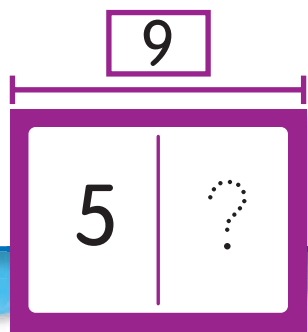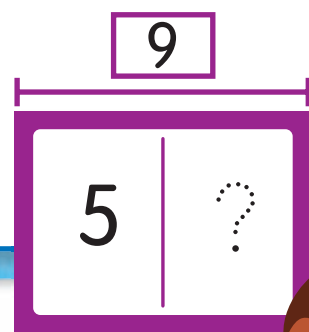$$4 + \underline{} = 12$$

so $12 - 4 = \underline{}$

4.

9
3	

$$3 + \underline{} = 9$$

so $9 - 3 = \underline{}$

Do you understand? What two subtraction facts can $4 + 6 = 10$ help you solve?

Independent Practice

Think addition to help you subtract. Write the missing part.

5.

11
4	

$$4 + \underline{} = 11$$

so $11 - 4 = \underline{}$

6.

12
7	

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

so $12 - 7 = \underline{}$

7.

11
6	

$$\begin{array}{r} 6 \\ + \boxed{} \\ \hline 11 \end{array} \qquad \begin{array}{r} 11 \\ - 6 \\ \hline \boxed{} \end{array}$$

8.

10
2	

$$\begin{array}{r} 2 \\ + \boxed{} \\ \hline 10 \end{array} \qquad \begin{array}{r} 10 \\ - 2 \\ \hline \boxed{} \end{array}$$

Solve the problems below.

9. Jamie brings 10 baseballs to the game. 4 of the balls are hit out of the park.
How many baseballs does Jamie have left? Write a number sentence to solve.

____ ⃝ ____ = ____

____ baseballs

10. The Purple team scores 5 points. The Green team scores 9 points.
How many more points does the Purple team need to tie the game? Write a number sentence to solve.

____ ⃝ ____ = ____

____ points

11. Mrs. Kane writes
12 − 5 = ____ on the board.
What addition fact can you use to find the answer?

6 + 5 = 11   6 + 6 = 12   7 + 5 = 12   5 + 8 = 13
   ⃝   ⃝   ⃝   ⃝

12. 🖊 **Journal** Write a number sentence to find both scores.

> The Red team made 10 goals. The Blue team's score is 3 less than the Red team's score. How many goals did each team score?
>
> _____   _____
>   Red   Blue

FOLD

FOLD
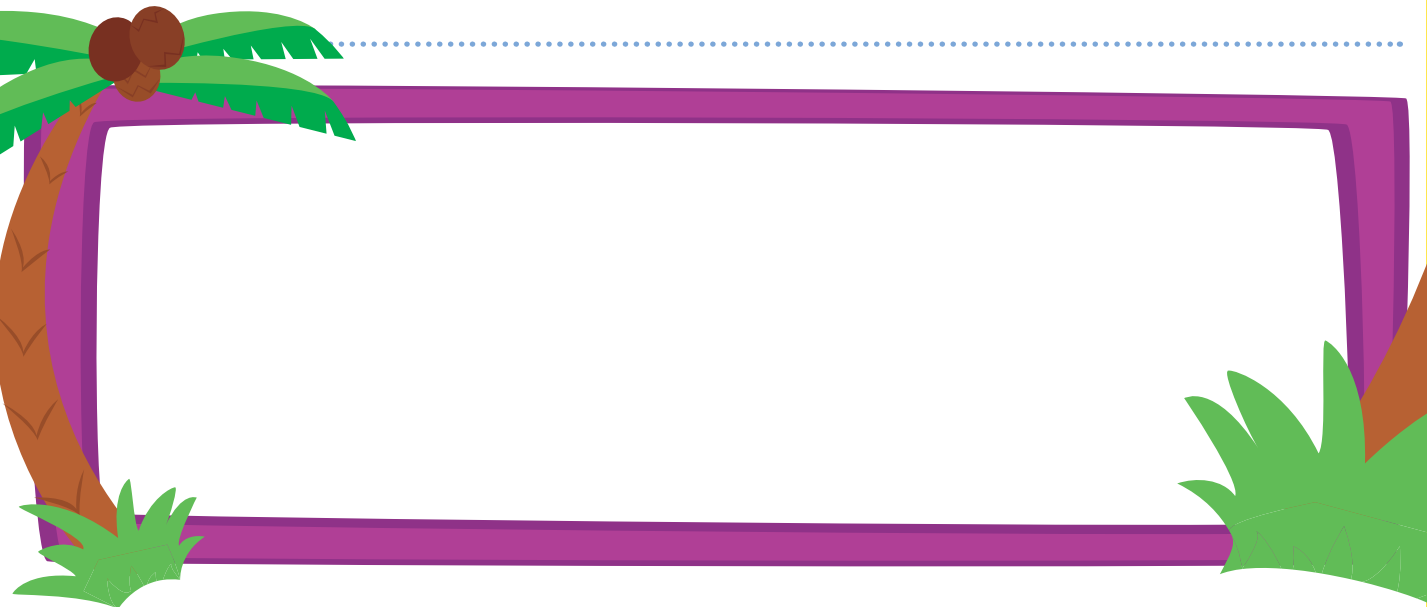
Name _____

Problem Solving

Draw a Picture and Write a Number Sentence

1. _____ − _____ = _____

2. _____ − _____ = _____

Home Connection Your child drew pictures and wrote subtraction sentences to solve problems.
Home Activity Read the following problem to your child: There were 11 apples in the bowl. Seth took two to school. How many apples are in the bowl now? Have your child write a subtraction sentence to answer the question (11 − 2 = 9).

MR 1.1 Determine the approach, materials, and strategies to be used. Also **AF 1.1.**

Read and Understand

Morgan has 7 toy cars.
He has 4 toy trucks.
How many more cars than trucks does Morgan have?

Plan

I can draw a picture and write a subtraction sentence to solve.

$$\underline{7} - \underline{4} = \underline{?}$$

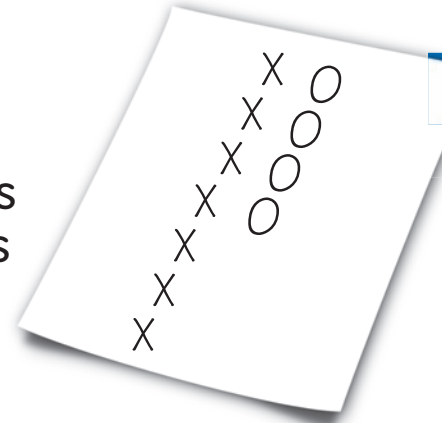## Solve

Morgan has 3 more cars than trucks.

$$\underline{7} - \underline{4} = \underline{3}$$

Look Back and Check

My picture shows the same answer as my number sentence. These both tell about the problem.

Guided Practice

Draw a picture or use another strategy to solve. Then write a subtraction sentence.

1. Sal had 12 pencils.
    He gave 6 pencils to Sumey.
    How many pencils does Sal have left?

    $$\underline{12} - \underline{6} = \underline{6}$$

2. Charlie drew 11 stars.
    Luz drew 4 stars.
    How many more stars did Charlie draw than Luz?

    $$\underline{} - \underline{} = \underline{}$$

Do you understand? How can a picture help you check that your number sentence is correct?

Independent Practice

Draw a picture or use another strategy to solve. Then write a subtraction sentence.

3. Priya made a tower with 9 blocks. She used 3 of the blocks to make another tower. How many blocks are left in the first tower?

    $$\underline{} - \underline{} = \underline{}$$

4. There were 8 flowers in Vicky's garden. Vicky picked 4 flowers. How many flowers are still in the garden?

    $$\underline{} - \underline{} = \underline{}$$

5. Hank has 2 footballs. He has 6 tennis balls. How many more tennis balls than footballs does Hank have?

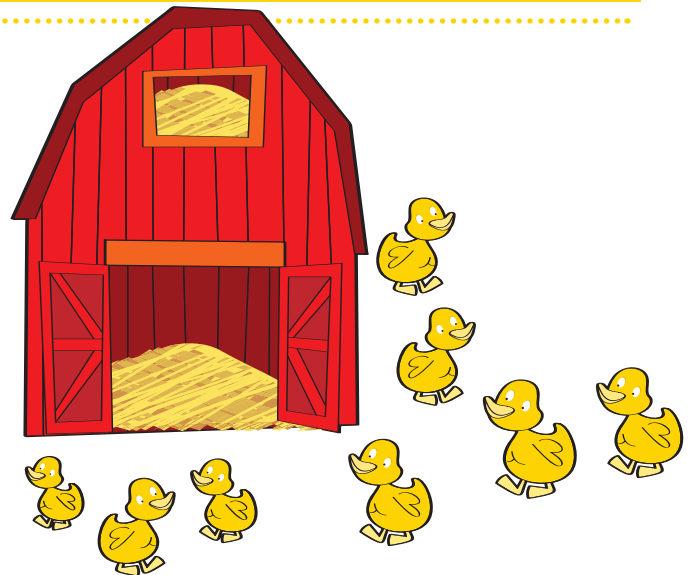 $$\underline{} - \underline{} = \underline{}$$

Solve the problems below.

6. On the farm there are 9 cows and 6 pigs. How many more cows are there than pigs? Choose a strategy to solve and write a number sentence.

_____ − _____ = _____

7. There are 12 ducks on the farm. 8 ducks are in the yard. How many ducks are in the barn? Which number sentence can help you find the answer?
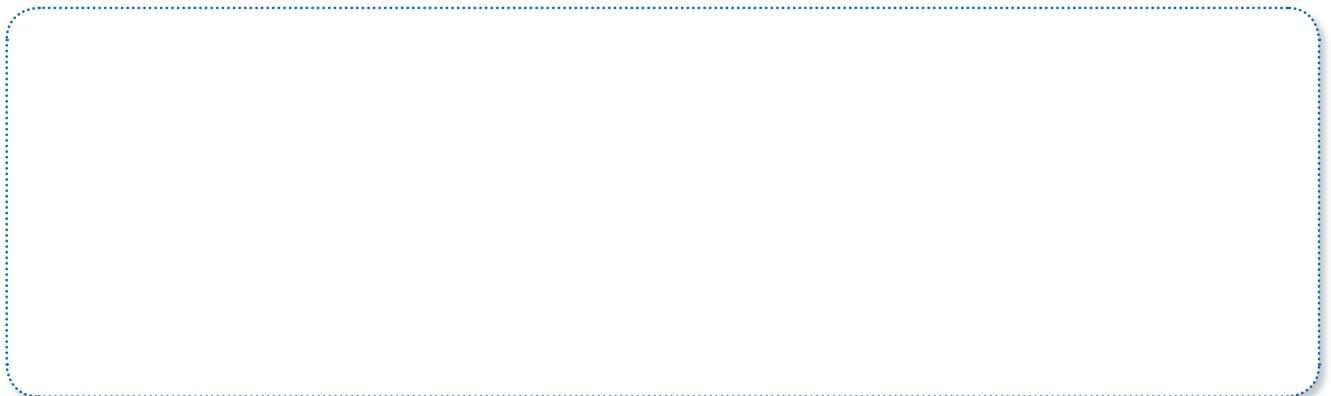
$12 - 4 = 9$ ○ $12 - 4 = 8$ ○ $12 - 4 = 6$ ○ $12 - 4 = 5$ ○

8. **Journal** Draw a picture to show $11 - 6 = 5$.

Name _____

1 I less than 7 is _____.

$7 - 1 =$ _____

     1   5   6   8

    ○   ○   ○   ○

2 2 less than 8 is _____.

$8 - 2 =$ _____

     2   6   7   10

    ○   ○   ○   ○

3 0 less than 9 is _____.

$9 - 0 =$ _____

     0   8   9   10

    ○   ○   ○   ○

4

$2 + 4 = 6$ $3 + 3 = 6$ $3 + 6 = 9$ $6 + 3 = 9$

    ○   ○   ○   ○

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5 $8 - 5 =$ _____?

$5 + 3 = 8$ $5 + 4 = 9$ $3 + 4 = 7$ $4 + 4 = 8$

    ○   ○   ○   ○

6

     8   6   4   2

    ○   ○   ○   ○

7

$3 + 9 = 12$ $3 + 7 = 10$ $9 - 3 = 6$ $9 - 5 = 4$
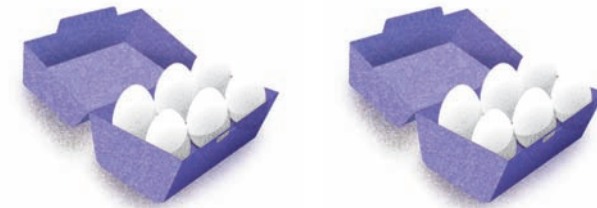
    ○   ○   ○   ○

Oral Directions Say: Mark the correct answer. **1–3.** Which number completes the sentences? **4.** There were 6 seeds on the ground. The bluebird ate 3 seeds. The robin ate the rest. How many seeds did the robin eat? Which number sentence can help you solve the problem?

Oral Directions Say: Mark the correct answer. **5.** Which addition sentence can help you solve? **6.** Jessica had 12 eggs. She cooked 8 of them. How many eggs were left? **7.** There were 9 children on the bus. 3 children got off the bus. How many children were left on the bus? Which number sentence can help you solve the problem?

Reteaching

Set A

You can subtract by thinking 0 less than, 1 less than, or 2 less than.

2 less than 9 is _7_ .

Write the subtraction fact.

$$\begin{array}{r} 9 \\ -\ 2 \\ \hline 7 \end{array}$$

Set B

You can use doubles addition facts to help you subtract.

Think
$4 + 4 = 8$

$$\begin{array}{r} 8 \\ -\ 4 \\ \hline 4 \end{array}$$

Subtract 0, 1, or 2 to find the difference. Write the subtraction fact.

1

$$\begin{array}{r} \boxed{} \\ -\ \boxed{} \\ \hline \boxed{} \end{array}$$

I less than 4 is _____.

2

$$\begin{array}{r} \boxed{} \\ -\ \boxed{} \\ \hline \boxed{} \end{array}$$

0 less than 6 is _____.

Use the doubles addition facts to help you subtract.

3

$$\begin{array}{r} 6 \\ +\ 6 \\ \hline \boxed{} \end{array} \qquad \begin{array}{r} 12 \\ -\ 6 \\ \hline \boxed{} \end{array}$$

4 $5 + 5 =$ _____

$10 - 5 =$ _____

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Set C

You can think addition to help you subtract.

8

?
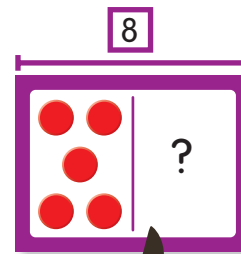
$5 +$ _3_ $= 8$

The missing part is 3.

$8 - 5 =$ _3_

Set D

You can think addition to help you subtract.

11

? | 4

Think

$$\begin{array}{r} 4 \\ +\ \boxed{7} \\ \hline 11 \end{array} \qquad \begin{array}{r} 11 \\ -\ 4 \\ \hline \boxed{7} \end{array}$$

Think addition to help you subtract.

5

6

?

$4 +$ _____ $= 6$

so $6 - 4 =$ _____

6

7

?

$6 +$ _____ $= 7$

so $7 - 6 =$ _____

7 Think addition to help you subtract.

9

6 | ?

$6 +$ _____ $= 9$

$9 - 6 =$ _____