Discover!
Math

1A

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Discover! MATH

Related Subtraction Facts

By the end of this lesson, you will be able to:

- demonstrate an understanding of related subtraction facts
- identify related subtraction facts
- identify fact families up to 10

Lesson Review

If you need to review related facts, please go to the lesson titled "Related Addition Facts."

Academic Vocabulary

Review the following vocabulary words and their meanings.

- **fact family:** a group of number sentences using the same three numbers
- **related subtraction facts:** subtraction sentences that use the same three numbers

IN THE REAL WORLD

Gotcha Days can be filled with fun family traditions to celebrate a person or a pet who has joined your family. The traditions can include eating special foods, going to special places, or taking photos. What traditions would you want to incorporate?

Gotcha Days

You are still helping at the pet adoption event. It is so rewarding to see pets go home with a forever family! You have had lots of opportunities to use your subtraction skills while getting the event set up. Now that the dogs have been walked, the cats have been brushed, and all the animals have been fed and given water, it is time to open up the gates and let everyone in!

This pet wants a forever home.

TAKE A CLOSER LOOK

There are lots of good reasons to have a pet. Not only are you giving a deserving animal a loving home, but they can also help you in return! Pets can help you feel less stressed, they can encourage you to get outside in the fresh air, and they can be a best friend to play with every day.

Best Friends

READ

Adoption Application

To adopt a pet, new owners have to fill out an application. The animal shelter reads the applications to make sure the new pets and owners will be happy and healthy together. There were ten applications on the table at the front of the adoption fair, but now there are four being filled out. How many applications are left?

Here is one way to write the subtraction sentence for this problem:

10 − 4 = 6

This means that there were ten applications, four of them were filled out, and six are left.

Here is another way to write this subtraction sentence:

10 − 6 = 4

10 − 4 = 6 and 10 − 6 = 4 are **related subtraction facts** because they are subtraction sentences that use the same three numbers.

PRACTICE

Related Subtraction Facts

Three more people take applications. There were ten at the beginning, and now seven have been taken. Fill in the blanks of the related subtraction sentences to show two ways to solve this.

10 − ____ = ____   **10 − ____ = ____**

WRITE

What changed between the related subtraction facts? What stayed the same?

....

....

Dog Treats

There is a jar of dog treats on the front table for people to give the dogs as they play with them. There are ten treats in the jar. A little girl comes up and gets eight treats out of the jar. Now, there are only two treats left. The subtraction sentence that matches this story looks like this:

$$10 - 8 = 2$$

A volunteer comes and puts eight treats back in the jar from a stash that is behind the table. The number sentence now looks like this:

$$2 + 8 = 10$$

Dog Treats

$10 - 8 = 2$ and $2 + 8 = 10$ are members of a fact family. A **fact family** is a group of number sentences using the same three numbers. Even though one number sentence is adding and the other is subtracting, they are in a fact family because they share numbers. These are all the number sentences in the fact family from the story:

Fact Family

$2 + 8 = 10$ $10 - 2 = 8$

$8 + 2 = 10$ $10 - 8 = 2$

PRACTICE

Fact Families

There is a craft table where kids can make cat toys with sticks, feathers, beads, and other materials. There were eight bottles of glue on the table. Two of the bottles were used up. How many bottles of glue are left?

1. First, write the subtraction sentence that matches the story.

$$8 - 2 = \underline{\quad}$$

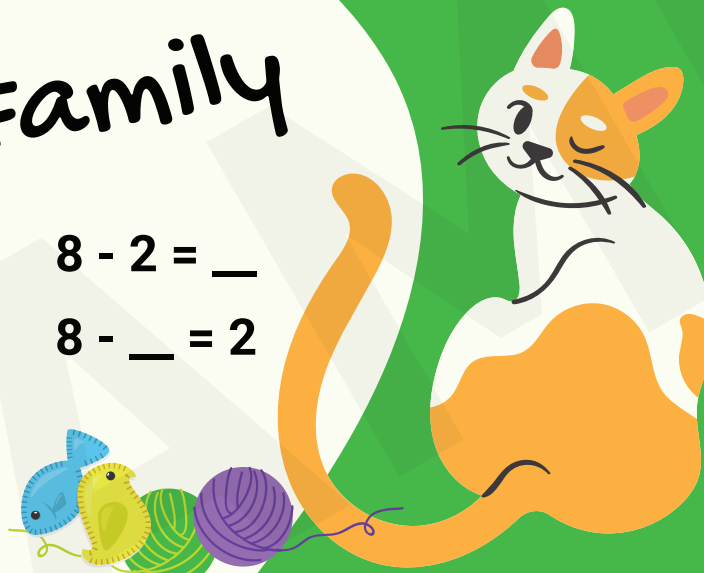**2.** Now, fill in the number sentences that make this fact family.

Fact Family

$$2 + \underline{\ } = 8 \qquad 8 - 2 = \underline{\ }$$
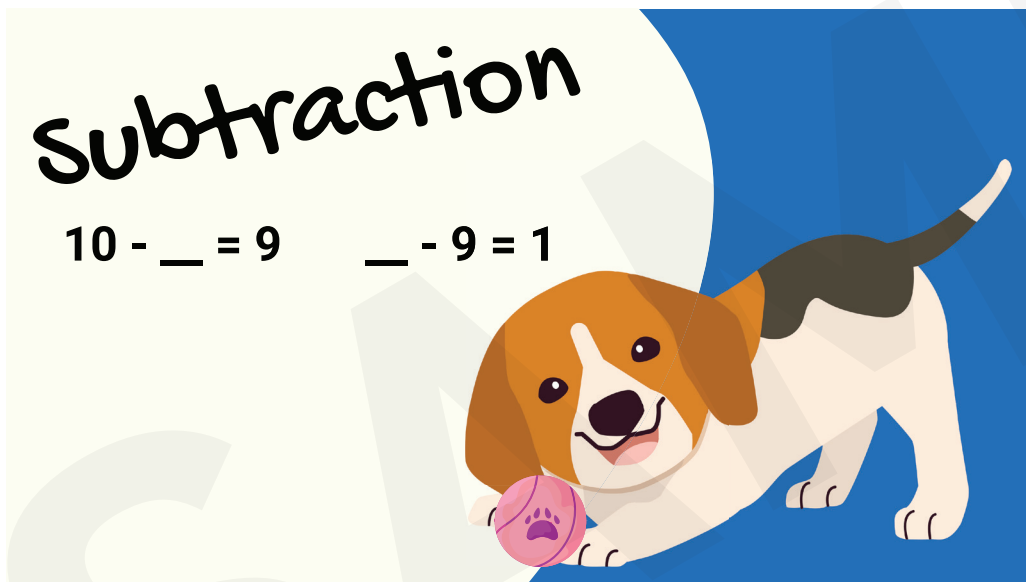$$\underline{\ } + 2 = 8 \qquad 8 - \underline{\ } = 2$$

This cat is having fun playing with the cat toy.

PRACTICE

Pet Adoptions

The pet adoption fair was a success! There were ten dogs up for adoption, and nine of them went home with new forever families today. There is one dog left, and you are allowed to take him home! Your dog Max will be so excited to have a playmate!

1. Fill in the blanks to show the related subtraction sentences that match the story.

Subtraction

10 - __ = 9   __ - 9 = 1

There were eight cats up for adoption and six of them went to good homes. The cats that were not adopted ended up being adopted by volunteers.

2. How many cats were adopted by volunteers? Write the related subtraction facts that match the story.

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

SKILL BUILDER

Geometry

At the craft table, you can make a pattern on the cat toys with shape stickers.
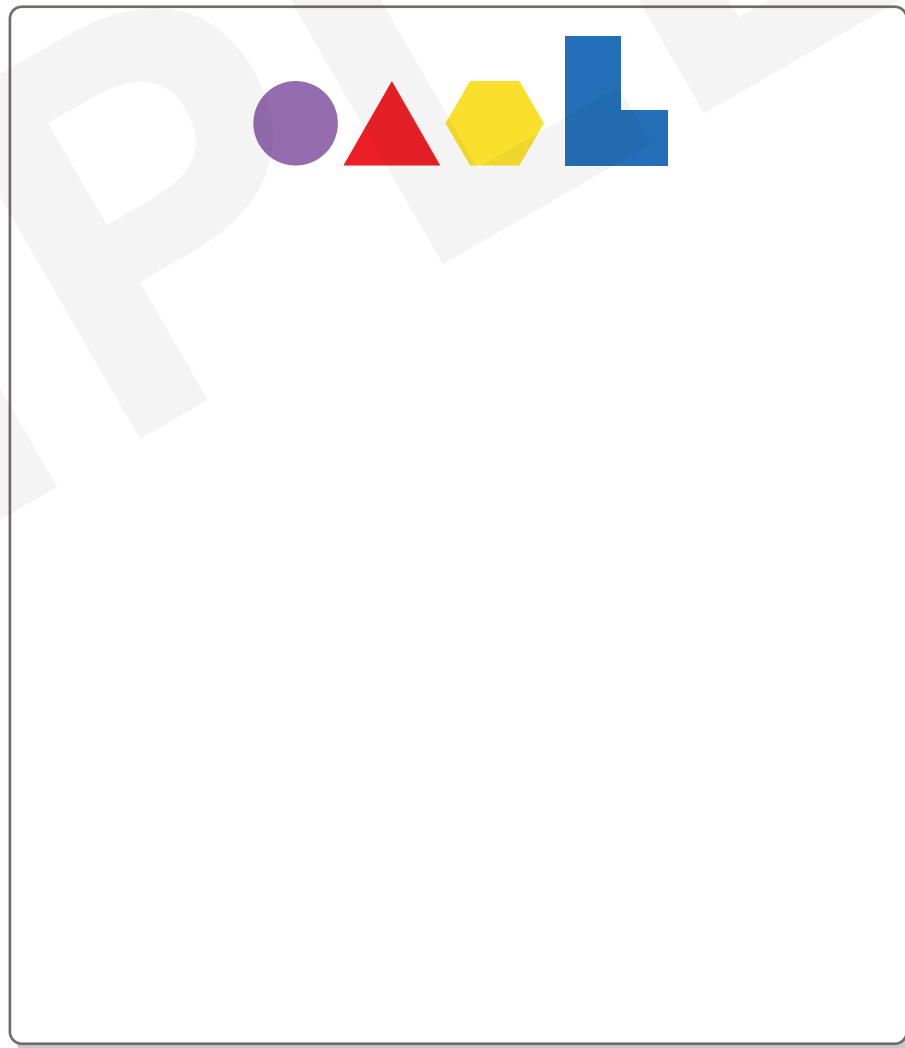
1. Complete each pattern with the shape that comes next.

2. Use the shapes to create a drawing of a pet in the drawing box.

Choose the correct answer for each question.

1. Which number completes the related subtraction sentences
6 − 5 = ___ and 6 − ___ = 5?

A. 11
C. 5
B. 1
D. 0

2. Which number completes the number sentences from the fact family?
6 + 4 = ___   4 + 6 = ___   ___ − 6 = 4   ___ − 4 = 6

A. 4
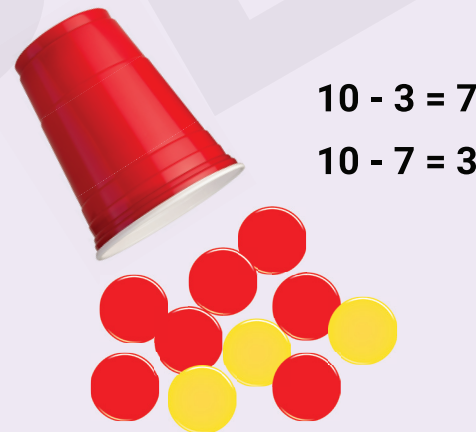**C.** 8
B. 6
D. 10

Read each sentence. Circle True or False.

3. True or False   A related subtraction sentence can include addition.

4. True or False   A fact family only contains addition.

5. True or False   4 + 5 = 9 and 9 − 5 = 4 are in the same fact family.

PLAY

Counters in a Cup

Place ten two-sided counters in a cup and dump them out. Write two related subtraction facts to represent what was dumped out. Here is an example:

10 - 3 = 7
10 - 7 = 3

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