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Visual Learning Animation Plus

How Can You Find the Total Number of Objects in Equal Groups?

Visual Learning Bridge

Jessie used 3 bags to bring home the goldfish she won at the Fun Fair. She put the same number of goldfish in each bag. How many goldfish did she win?

I can use counters to show the groups.

8 goldfish in each bag

The counters show 3 groups of 8 goldfish.

You can use addition to find equal groups.

8 goldfish in each bag

$$8 + 8 + 8 = 24$$

Multiplication is an operation that gives the total number when you join equal groups.

3 times 8 equals 24

$$3 \times 8 = 24$$

factor factor product

Factors are the numbers that are being multiplied. The **product** is the answer to a multiplication problem.

You can write **equations**. An **unknown** is a symbol that stands for a number in an equation.

Addition equation:
 $8 + 8 + 8 = ?$
 $8 + 8 + 8 = 24$

Multiplication equation:
 $3 \times 8 = ?$
 $3 \times 8 = 24$

Jessie won 24 goldfish.

Convince Me! **Model with Math** Suppose Jessie won 5 bags of 8 goldfish. Use math you know to represent the problem and find the number of goldfish Jessie won.

6
Topic 1 | Lesson 1-1
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Visual Learning

6 blue hats
2 orange hats

How many **more** blue hats than orange hats are there?

Use cubes to **compare**.

One way is to find the difference. Write a subtraction equation.

$$5 - 2 = 3$$

You can also write an equation to compare.

There are 3 more blue hats than orange hats.

Convince Me!
Can you also add to solve the problem above? Explain.

Guided Practice Use cubes to help. Write an equation. Then solve.

1. 6 yellow frogs
3 green frogs

How many more yellow frogs than green frogs are there?

$$6 - 3 = 3$$

_____ more yellow frogs

22 Twenty-two © Pearson Education, Inc. 1 Topic 1 | Lesson 5

Essential Question How Are Place Values Related to Each Other?

Visual Learning Bridge

Kiana had bottle caps. She wants to collect ten times as many bottle caps. How many bottle caps will Kiana have in her collection then?

Think place value.

100 bottle caps

A hundreds flat represents 100 bottle caps.

100

To find ten times as many bottle caps, group 10 hundreds flats together.

1,000

One thousand is ten times 100.
 $100 \times 10 = 1,000$
One hundred is one-tenth of 1,000.
 $1,000 \div 10 = 100$

Kiana will have 1,000 bottle caps in her collection.

Convince Me! Generalize Use place-value blocks to model 1 and 10, 10 and 100, 100 and 1,000. What pattern do you see?

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Grade 1 Sample

Grade 4 Sample



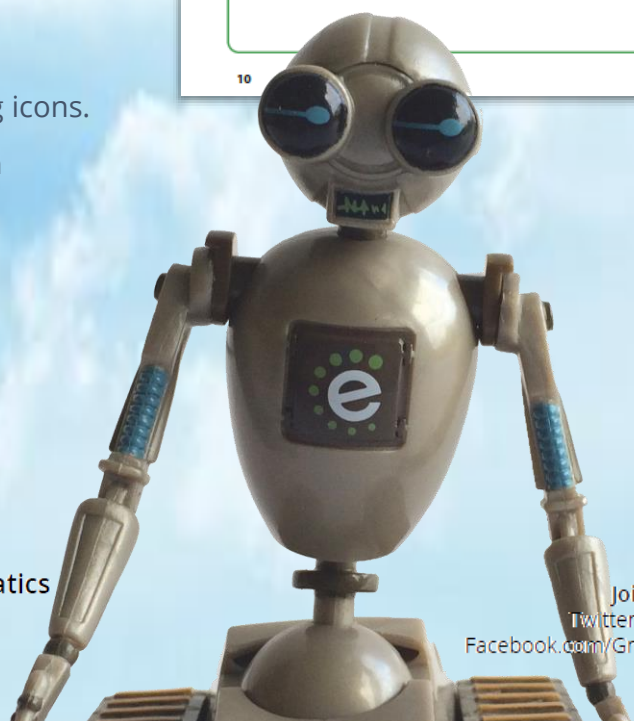
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