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Unit 2—Percents

PERCENTS

A

Today's Destination
What is a percent?

Vocabulary ━ ━ ━ ━ ━ ━ ━ ━ ━ ━ ━

Percent   A number that expresses a fraction with a denominator of 100

Problem of the Day ━ ━ ━ ━ ━ ━ ━ ━ ━

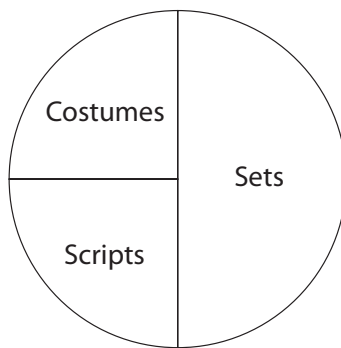What fraction of Marta's serves have been good? _____

_____

SIDE TRIPS

1) There are 10 baseball players shown below. Complete the drawing so that:

- 50% of the players are wearing striped shirts
- 40% of the players are wearing hats

E

2) This circle graph shows how the director spent money for the school play. She spent $280 total. She spent 25% of the money on costumes, 25% of the money on scripts, and 50% of the money on sets. How much money did the director spend on each?

Compute It!

Sets: _____

Costumes: _____

Scripts: _____

Explain how you found your answers.

Explain It! _____

_____

_____

_____

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You can use the **percent change** (percent increase or percent decrease) to compute a new number if you know the original.

Last week, a bakery sold 700 muffins. This week, there was a 10% decrease in sales of muffins. How many muffins did the bakery sell this week?

> FIRST, I CAN FIND THE DECREASE IN THE NUMBER OF MUFFINS SOLD: 10% OF 700.

Compute It!

$10\% \times 700 = 70$ muffins

> SINCE 10% REPRESENTS A DECREASE, I WILL SUBTRACT 70 FROM LAST WEEK'S SALES.

Compute It!

$700 - 70 = 630$ muffins

Try It Out!

Last year, a beekeeper counted 450 bees in her hive. This year, she notices that the bee population in the hive has increased 20%. How many bees are in the hive this year?

First, compute the number of bees added to the hive.

Compute It!

Then add the increase to the original number of bees in the hive.

Compute It!

J