

Percents: Missing Total: Word Problems

PMT 1

Instructions: Use what you learned in the video about finding a missing total to solve each word problem.

- 1** 60% of the animals at a pet shop are dogs. If there are 42 dogs at the shop, then how many animals are there altogether?

$$\frac{42 \times 100}{60} = \text{total}$$

$$\frac{4,200}{60} = \text{70}$$

- 2** If a car's gas tank has 15 gallons of gas in it, and the gauge says the tank is 75% full, then how many gallons can the entire tank hold?

- 3** A fruit stand's most popular fruit is strawberries, which account for 35% of their total sales. If they usually sell \$70 worth of strawberries each day, what would their usual daily income be?

- 4** A mountain climber has made it 80% of the way up a mountain. If they have climbed to an altitude of 3,200 meters so far, how tall is the mountain?

- 5** A digital memory card is only 4% full. If there is 1.2 GB worth of data on the card, how much data can the entire card hold?

- 6** Some students are taking a timed test and they have spent 16 minutes on the test so far. If 20% of the time has gone by, how long do they have to complete the whole test?

$$\frac{\text{PART}}{\text{WHOLE}} = \frac{\text{PERCENT}}{100}$$

Name: _____

Date: _____

Percents: Mixed Word Problems

PMT 2

Instructions: In the last three videos about Percents, you have learned how to solve problems where the **Part** is missing, where the **Percent** is missing, and where the **Total** is missing. In each of the problems below, determine which number is missing and then use what you've learned in the videos to find it. (You can use a calculator if you need to.)

- 1 A 16 ounce drink contains 70% fruit juice. How many ounces of fruit juice are in the drink?

- 2 A volleyball team played 28 matches and won 21 of them. What percent of their matches did they win?

$$\frac{\text{PART}}{\text{WHOLE}} = \frac{\text{PERCENT}}{100}$$

$$\frac{21}{28} = \frac{x}{100}$$

$$\frac{21(100)}{28} = \frac{2100}{28} = 75$$

THEY WON 75% OF THEIR GAMES

- 3 A painter has finished painting 45% of a really long fence. If she has painted 90 feet so far, how long is the entire fence?

- 4 A TV show is on from 7:00 to 8:00pm. If there are 18 minutes of advertisements during that time, what percent of the show was advertisements?

$$\frac{18}{60} = \frac{x}{100}$$

- 5 A new type of light bulb uses only 23% as much power as an old light bulb. If the old light bulb used 60 Watts, how much power (in Watts) does the new bulb use?

- 6 70% of the students at a school went on a field trip to an Aquarium. If there were 350 students on the trip, how many students attend that school?

$$\frac{\text{STUDENTS ON THE TRIP}}{x} = \frac{70}{100}$$

$$\frac{350}{x} = \frac{70}{100}$$

$$\frac{350(100)}{70} = \frac{35000}{70} = 500$$

THERE ARE 500 STUDENTS AT THE SCHOOL