

## 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?

## Percents: Missing Total

**1** At a birthday party, 50% of the cupcakes are chocolate. If there are 20 chocolate cupcakes, how many cupcakes are there altogether?

**2** A store's parking lot is 10% full. If there are 12 cars in the lot, then how many cars can the entire parking lot hold?

**3** A music store sells both electric and acoustic guitars. One month, the store sold 12 electric guitars. If that was 60% of their sales for the month, how many guitars did they sell that month in all?

**4** A family is on a road trip, and they have driven 30% of the distance to their destination. If they have driven 150 kilometers so far, what is the total distance to their destination?

**5** A baseball team won 90% of their games last season. If they won 144 games, then how many games did they play during the entire season?



**6** A rain barrel is 65% full. If there are 26 gallons of rain water in the barrel, how many gallons of water can the whole barrel hold?



**7** A theater has sold 70% of the tickets for an upcoming show. If it has sold 63 tickets so far, how many tickets are left? (*hint: find the total first.*)



**8** A bakery has sold 84% of the bread it baked that morning. If it has sold 126 loaves of bread, how many loaves of bread are left? (*hint: find the total first.*)



## 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?
- 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?
- 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?