



Name _____ Period _____ Date _____

Word Problems Using Percent Proportion

Percent Proportion

$$\frac{\text{part}}{\text{total}} = \frac{\%}{100}$$

Example:

If Jordan made 12 baskets out of 20 attempts, what percent did he score?

$$\frac{\text{success}}{\text{attempts}} = \frac{12}{20} = \frac{x}{100}$$

$x = 60$. Therefore, Jordan scored 60% of the time.

Solve the following word problems.

1. What is Shaun's percent grade if he got 23 correct out of 25?
2. Kim purchased a dress for \$132 which was on sale for 60% of its original price. What was the original price of the dress?
3. If a sales person makes 6% commission, how much would they make from a \$1,800 sale?
4. A department store is having a sale of 20% off of all kitchen appliances. What is the sale price for a \$250 microwave?
5. Nick received an 82.5% on his math test. How many questions did he get right if there were a total of 40?
6. A party of 5 wants to tip 20% of their total \$175 bill. If divided evenly, how much should each person tip?
7. Erin's hourly salary went from \$9.00 to \$9.27. What percent raise did she receive?
8. A high school had 2,300 students in 2010 which increased by 33% in the following four years. How many students are there in 2014?