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?
\[
\frac{\text{success}}{\text{attempts}} = \frac{12}{20} = \frac{x}{100},
\]
\[x = 60. \text{ Therefore, Jordan scored 60\% of the time.}\]

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?