

# Percent Problems

Solve these problems. Show your work.

1. The math test had 60 questions. If Ray got 48 questions correct, what percent of Ray's answers were correct?
2. Tenisha went to a sale where all shoes were marked 40% off. The shoes she wants were originally \$125. How much will she save on these shoes?
3. The car dealer required customers to make a 15% cash deposit in order to buy a new car. On a \$23,900 car, how much deposit is required?
4. George earns \$312 each week. His boss has promised him a 4% raise. How much will George earn each week when he gets his raise?
5. Susanna will receive an 8% discount if she pays cash when buying a new refrigerator. The refrigerator she wants costs \$498.50. How much can Susanna save by paying cash?
6. Alex paid \$210 for a bike helmet that usually costs \$280. What percent of the original price did Alex pay?
7. Only 12.5% of the students at Wright High missed class on the day of the big snowstorm. If 496 students are enrolled at Wright High, how many students missed school that day?
8. Ms. Lu left a \$30 tip after eating at her favorite restaurant. If her bill was \$200, what percent of the bill did she leave as a tip?
9. Mr. Rey is a used car dealer. He needs to sell 60 cars each month to reach his sales goal. By June 10, he had sold 27 cars. What percent of his monthly goal had he reached?
10. The owner of Tiny Things buys baby sweaters for \$35.00. If the owner marks up the price by 60%, what does she charge customers for each sweater?

Round the numbers and then estimate each answer. Do NOT solve for the exact answer.

11. Mrs. Meier spent 52% of her monthly income on rent and transportation. If she earns \$1,875.35 a month, how much does she spend each month on rent and transportation?
12. Children's Hospital employs 759 nurses. Only 6.8% of the nurses are men. How many male nurses work at Children's Hospital?

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Solve these problems. Show your work.

1. The math test had 60 questions. If Ray got 48 questions correct, what percent of Ray's answers were correct?

$$48 \div 60 = 4 \div 5 = .8 \quad 80\%$$

2. Tenisha went to a sale where all shoes were marked 40% off. The shoes she wants were originally \$125. How much will she save on these shoes?

$$.4 \times 125 = \$50$$

3. The car dealer required customers to make a 15% cash deposit in order to buy a new car. On a \$23,900 car, how much deposit is required?

$$.15 \times 23900 = \$3585$$

4. George earns \$312 each week. His boss has promised him a 4% raise. How much will George earn each week when he gets his raise?

$$.04 \times 312 = 12.48 + 312 = \$324.48$$

5. Susanna will receive an 8% discount if she pays cash when buying a new refrigerator. The refrigerator she wants costs \$498.50. How much can Susanna save by paying cash?

$$.08 \times 498.50 = \$39.88$$

6. Alex paid \$210 for a bike helmet that usually costs \$280. What percent of the original price did Alex pay?

$$\frac{210}{280} = \frac{3}{4} = .75 \quad 75\%$$

7. Only 12.5% of the students at Wright High missed class on the day of the big snowstorm. If 496 students are enrolled at Wright High, how many students missed school that day?

$$.125 \times 496 = 62$$

8. Ms. Lu left a \$30 tip after eating at her favorite restaurant. If her bill was \$200, what percent of the bill did she leave as a tip?

$$\frac{30}{200} = \frac{15}{100} \quad 15\%$$

9. Mr. Rey is a used car dealer. He needs to sell 60 cars each month to reach his sales goal. By June 10, he had sold 27 cars. What percent of his monthly goal had he reached?

$$\frac{27}{60} = \frac{9}{20} = .45 \quad 45\%$$

10. The owner of Tiny Things buys baby sweaters for \$35.00. If the owner marks up the price by 60%, what does she charge customers for each sweater?

$$.6 \times 35 = 21 + 35 = \$56$$

Round the numbers and then estimate each answer. Do NOT solve for the exact answer.

11. Mrs. Meier spent 52% of her monthly income on rent and transportation. If she earns \$1,875.35 a month, how much does she spend each month on rent and transportation?

$$.52 \times 1875.35 = \$975.18$$

12. Children's Hospital employs 759 nurses. Only 6.8% of the nurses are men. How many male nurses work at Children's Hospital?

$$.068 \times 759 = 52$$