

## PERCENTS

Students should be able to:

- use the Percent Proportion to find the part, total or percent in application problems
- use the Percent Proportion to find percent of increase or decrease

### Problem set

1. The Dobb's family spent \$430 for food during the month of July. That was 25% of their monthly income. What was their income for July?
2. The markup on a bicycle is 45%. The bike sells for \$232.00. Find the cost to the store owner.
3. A car salesperson received a commission of \$2100 for a sale of \$30,000. What was the rate of commission?
4. The regular price of a hair dryer is \$27.50. It's on sale for 20% off. Find the sales price.
5. The sales clerk is paid a 6% commission. Last month he sold \$22,500 worth of goods. What was his commission?
6. A bank offers 4.5% interest on their checking accounts. How is this amount written as a decimal?
7. An antique book cost \$10 when it was first purchased. Today it's worth 1.5 times the original amount. How do you write that as a percent?
8. There are 240 kids at the movie theatre. Thirty percent of them are girls. How many girls are at the movie theatre?
9. Bob receive 21% of the sales he makes. Yesterday he sold \$700 worth of goods. How much did he receive?
10. Fifteen of the 90 students in class have blond hair. What percent of the class has blond hair?
11. Bob had 250 letters to type for his boss. At the end of the day, he only typed 110 letters. What percent of the job did he get done?

12. James spends 12 hours per week studying. He spends 3 of those hours studying math. What percent of his study time spent on math?
13. The Johnson's purchased their home for \$160,000. Two years later, the house had increased in value by 15%. How much is the house worth after two years?
14. The membership at a certain church was 450 members five years ago. Today, the membership is 525 members. What percent increase is this?
15. In a recent survey, people were asked if they had a digital camera at home. Six people had digital cameras, this was 30% of the total number of people surveyed. How many people were surveyed?
16. Last week the hotel occupancy rate was 75%. If 600 rooms were rented, how many rooms were still available?
17. Bonnie used 4 gallons of paint to paint 80% of her bedroom. How many gallons of paint will it take to paint the entire room?
18. A \$30 shirt was on sale for 25% off. What was the sales price of the shirt?
19. On a test with 30 questions, Bill answered 80% correctly. How many answers did he get wrong?
20. Tom bought a radio on sale for 20% off for \$68. What was the original cost of the radio?