

Math, *you can do it!*

Ratio & Proportion; Test Your Knowledge

by Bill Hanlon

Definitions

1. Ratio
2. Proportion
3. Express the ratio 5 to 7 as a fraction.
4. Express each ratio in simplest form.
 - a. 6 to 8
 - b. 24 to 32
5. Bob's club has 50 members. Ten are male and the remainder are females. Find:
 - a. The ratio of males to females.
 - b. The ratio of males to the total number of members in the club.
 - c. The ratio of the total number of people in the club to the number of females.
6. If there are 12 inches in one foot, how many inches are there in five feet?
7. The legend on a map indicates one inch equals 35 miles. If the distance traveled on the map is four inches, how many miles would have to be traveled?
8. If a basketball player makes 25 out of 45 baskets in his first game, how many baskets would you expect him to make in the second game if he attempted 18?
9. On a trip across country Bob used 25 gallons of gas to travel 300 miles. At this rate, how much gas will he use to travel 3000 miles?
10. If three pieces of candy cost 10¢, how much will 16 pieces cost?
11. If the ratio of boys to girls in art class is 5 to 7, how many girls are there in class if there are 60 students enrolled?
12. The ratio of length to width of a rectangle is 8 : 3. Find the dimensions of the rectangle if the perimeter is 44 inches.
13. David reads 40 pages of a book in 50 minutes. How many pages should he be able to read in 80 minutes?
14. A candle is 30 inches long. After burning 12 minutes, the candle is 25 inches long. How long would it take the whole candle to burn?