1. If a jogger runs 2 miles and burns 185 calories, how many calories would he burn jogging 3 miles?



(3)
$$\frac{185}{2} = \frac{\times}{3}$$
 (3) $\frac{177.5 \times}{3}$

They will burn 277. 5 calories jogging 3 miles

2. The ratio of the cost of a tennis racket to tennis balls is 18:1. If a can of balls cost \$5.35, what is the cost of the racket?

$$(5.35) \frac{18}{1} = \frac{\times}{5.35} (5.35)$$

$$96.3 = \times$$

It will cost \$96.30 for a tennis racket

3. Curtis School has 1,575 students. The student to teacher ratio is 15 to 1. How many teachers are at Curtis School?

There are 105 teachers at Curtis School

4. A recipe calls for $2\frac{1}{2}$ cups of flour to make 2 dozen cookies. How many cups of flour would be required to bake 15 dozen cookies?

You need 18.75 cups of sugar-to make 15 dozen cookies.

5. A meteorologist reports that the ratio of snowfall in January to total snowfall during the average winter is 2 to 5. If 34 inches have fallen in January of the current year, find the predicted total snowfall for the entire winter.

$$(34)5 = \times (34)$$

$$2 = 34$$

$$95 = X$$

85 inches of snow would be predicted for the year.

6. Because of slumping sales, a small company had to lay off some of its employees. The ratio of total employees to employees laid off is 5 to 1. Find the total number of employees if 22 are laid off.

There are 110 total employees.

7. A crew of loggers cleared $\frac{1}{2}$ acre of lumber in 4 days. How long will it take the same crew to clear $2\frac{3}{4}$ acres of lumber?

8. A person who weighs 200 pounds on Earth would weigh about 32 pounds on the moon. Find the weight of a person on Earth who would weigh 15 pounds of the moon.

They would weigh 93.75 lbs. on Earth.

.9. A pump can fill a 750-gallon tank in 35 minutes. How long will it take to fill a 1000gallon tank with this same pump?

46.7 minutes to fil the 100 gallon

10. In a public opinion poll, 624 people from a sample of 1,100 indicated they would vote for a specific candidate. How many votes can the candidate expect to receive from a population of 40,000?

$$(40,000) \frac{624}{1100} = \frac{x}{40,000}$$

 $22,640.9 = x$