Ratio & Proportion
Word Problems

Solve

1.   There are 5 boys for every 3 girls in Biology, Out of the 56 students in the class, how many are girls?

2.   Tom drove 320 miles in 5 hours. At this rate, how long would it take him to travel 600 miles?

3.   If a 15 lb. ham is enough to serve 20 people, how many lbs. of ham would be needed to serve 50 people?

4.   A 30 pound moonling weighs 180 pounds on the earth. How much does a 300 pound Earthling weigh on the moon?

5.   The ratio of the sides of a certain triangle is 2:7:8. If the longest side of the triangle is 40 cm, how long are the other two sides?

6.   If a quarterback completes 20 out of 45 passes in his first game, how many passes do you expect him to complete in his second game if he only throws 18 passes?

7.   On a trip across the country Joe used 20 gallons of gas to go 300 miles. At this rate, how much gas must he use to go 3500 miles?

8.   On a map 3 inches represents 10 miles. How many miles do 16 inches represent?

9.   If our class is representative of the university and there are 2 males for every 12 females. How many men attend the university if the female population totals 15,000?

10.   The ratio of length to width of a rectangle is 8:3, find the dimensions of the rectangle if the perimeter is 88 in.