Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_

**Spiral 18: Due 3-10-2017 NO CALCULATORS!!!!!!!**

***Set up a proportion to solve each problem. Show ALL work to receive credit!!!***

1. If a jogger runs 2 miles and burns 185 calories, how many calories would he burn jogging 3 miles?
2. The ration of the cost of a tennis racket to tennis balls is 18:1. If a can of tennis balls cost $8.75, what is the cost of the racket?
3. Chase’s School has 1,575 students. The student to teacher ratio is 15 to 1. How many teachers are at Chase’s school?
4. A recipe calls for 2 ½ cups of flour to make 2 dozen cookies. How many cups of flour would be required to bake 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 year.
6. Because of decreasing sales, a small company had to lay off some of its employees. The ratio of total employees laid off was 5 who stayed to 1 laid off. Find the number of employees still working if 22 were laid off.
7. A group of farmers planted ½ acre of strawberries in 4 days. How long will it take them to plant 2 ¾ acres of strawberries?
8. A pump can fill a 750 gallon tank in 35 minutes. How long will it take to fill a 1000 gallon tank with the same pump?
9. 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 on the moon.
10. In a poll taken about who people would vote for for president, 624 people of the 1100 people asked said they would vote Republican. How many people would be expected to vote Republican if the total population was 40,000?