Name:_____ Period:_____ Date: Assigned 5-11-18

7th Grade STAAR Review Take Home Test – Due Tuesday May 15th

Directions: *Solve each of the following problems and record your answer in the answer box.*

1) Yvette uses 6 grams of tea leaves to make 24 fluid ounces of tea. Last week she made 288 fluid ounces of tea. How many grams of tea leaves did Yvette use to make tea last week?

2) An isosceles triangle has base angles that each measure 42°. What is the measure of the third angle of this isosceles triangle in degrees?

3) The diameter of the handle of a softball bat is 1 3/4 inches. What is the length in inches of the diameters of 8 of these bat handles?

4) A bag contains 5 red marbles, 6 blue marbles, 3 green marbles, 4 black marbles, and 2 yellow marbles. A marble will be drawn from the bag and replaced 100 times. What is a reasonable prediction for the number of times a green or black marble will be drawn?

5) A boat traveled 27 miles in 2 hours. At this rate, how many miles will the boat travel in half an hour?

6) At an assembly 7 out of the first 10 students who entered the gym were carrying a backpack. Based on this information, if 700 students were at the assembly, how many students could be expected to be carrying a backpack?

7) A circular railroad-crossing sign has a diameter of 30 inches. What is the area of the sign in square inches?

8) A refrigerator is priced at $525.50. There is a 6% sales tax rate. What is the sales tax for the refrigerator in dollars and cents?

9) A storage container is shaped like a rectangular prism. The volume of the container is 1,360 cubic feet. The area of the base of the container is 160 square feet. What is the height of the container in feet?

10) Ana drew a map of the Panama Canal. In the scale Ana used for the map, 4 centimeters represents 20 kilometers. The actual length of the Panama Canal is 82 kilometers. What is the length in centimeters of the Panama Canal on Ana's map?

Answers:

1)_____

2)_____

3)_____

4)_____

5)_____

6)_____

7)_____

8)_____

9)_____

10)_____