Math 10 – Unit 4 – 5.1 to 5.8; 9.4; 8.1 to 8.3

To the Test – be sure to bring:

- (1) your personally-prepared 8 ½ " by 11" study guide for this test
- (2) your simple, non-graphing calculator and
- (3) your pencils
- (4) your BluGold ID
- 1. What is the word name for the following decimal number: 7.06
- 2. Arrange these values in order from smallest to largest: $\frac{37}{10}$ 3.67 $\frac{37}{100}$ 3.71
- 3. Round 5.8374 to the nearest hundredths and round 9.57238 to the nearest thousandths
- 4. Add 2.912, 5, 0.8, and 3.14 then Subtract 2.916 from 3.14
- 5. Estimate the product of $7.8 \bullet 6.4$ by rounding each number to the nearest whole number before multiplying.

$$_{\text{Multiply:}}$$
 (5.3)(-7.4)

6. Divide
$$-18.9923 \div 7.39$$

$$6-4.4+(2.3+0.2)^2-4.2 \bullet 0.3$$

8.
$$\frac{17}{12}$$
 written as a decimal is ...

9. Write 0.64 as a common fraction. Then write the answer in lowest terms.

10. Solve the equation for the value of x:

$$6.2x - (x - 3.7) = 5.1x + 3.0$$

$$3.5x + 2.1 = 5.7x - (x - 2.7)$$

11. Find the missing integer length for the right triangle. Remember: $a^2+b^2=c^2$

If 'a' and 'b' represent the two sides of a right triangle and 'c' represents the hypotenuse,

Find C if A=7 and B=24. Find B if A=12 and C=20.

12. At a grocery store, Sally buys a roast that is marked \$7.31. She pays for her purchase with a \$50 bill. How much change does she get?

13. A sheet of paper has dimensions 6.34 centimeters by 8.24 centimeters (cm). What is its area?

A department paid \$36.04 for 212 pencils. What was the price per pencil?

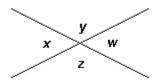
14. Consider the following ticket prices (in dollars) for 10 concerts held this school year.

13, 15, 15, 30, 15, 12, 30, 16, 23, 24

Find the MEAN price, the MEDIAN price, and the MODE price.

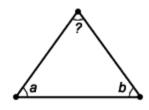
15. Suppose $m \angle w = 52^{\circ}$.

Find the measures of $\angle x$, $\angle y$, and of an angle that is the complement of $\angle w$.



What is the supplement of $\angle w$?

16. Find the measure of the third angle in this triangle.



$$a = 51^{\circ}$$
 and $b = 67^{\circ}$

- 17. A circle has a diameter of 8.8 ft. Find its **circumference** using 3.14 for π .
- 18. A circle has a diameter of 8.8 ft. Find its **area** using 3.14 for π .

(Round both answers to one decimal place and be sure to include the proper units.)



	A triangular-shaped plot of ground has a base of 24 meters and an altitude of 16 meters. Find its area.
	A particular rug design can be purchased for \$6.75 per square foot. If the rug I want to purchase is 13 ft by 9 ft, what is the rugs area? What would be the cost of that rug with that particular rug design?
20.	The inside dimensions of a fish tank are: 8" x 16" x 11". If the tank were filled completely to the top with water, how many cubic inches of water would be in the tank?