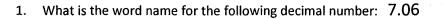
Math 10 - Unit 4 - 5.1 to 5.8; 9.4; 8.1 to 8.3

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



Seven and six hundredths
2. Arrange these values in order from smallest to largest:
$$\frac{37}{10}$$
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 $4.$ Add 2.912, 5, 0.8, and 3.14 then Subtract 2.916 from 3.14 $\frac{3.14}{-2.916}$ -2.916
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Divide
$$10.3323 \cdot 7.39$$

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7. Simplify the expression:

$$6-4.4 + (2.3+0.2)^{2} - 4.2 \cdot 0.3$$

$$(3.5)^{2}$$

$$6-4.4 + 6.35 - 1.36^{2}$$

$$1.6 + 6.35 - 1.36^{2}$$

$$= 6.59$$

like

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

lecimal is ...
$$1.41666$$

 $12/17.$ $80 = 1.416$
 $12 \frac{72}{80}$
 $\frac{72}{80}$
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9. Write 0.64 as a common fraction. Then write the answer in lowest terms.

$$\frac{64}{100} \Rightarrow \frac{16}{25}$$

10. Solve the equation for the value of x:

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

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

$$6.2x - 1x + 3.7 = 5.1x + 3.0$$

$$6.2x - 1x + 3.7 = 5.1x + 3.0$$

$$6.2x - 1x + 3.7 = 5.1x + 3.0$$

$$70 \text{ multiply both sides by 10}$$

$$71 = 5.7x - 1x + 3.7$$

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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.

$$\gamma^{2} + 2\gamma^{2} = C^{2}$$

 $49 + 576 = C^{2}$
 $635 = C^{2}$
 $25 = C$
Find B if A = 12 and C = 20.
 $12^{2} + B^{2} = 20^{2}$
 $144 + B^{2} = 400$
 $-144 = -144$
 $B^{2} = 256$
 $B^{2} = 256$

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.

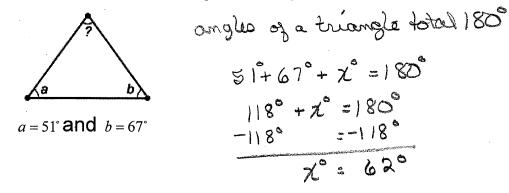
mean: sum: 10 mEDIAN: put inorder, FIND the CENTRE
193: 10 I? I3 IS IS IS
$$15,16$$
 as at 30 30
(19.3) (5.5)
mode: most often
(15)

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

Find the measures of $\angle x$, $\angle y$, and of an angle that is the complement of $\angle w$. 128° 128° $x = 52^{\circ}$ since w and \mathcal{X} are vertical angles.

$$5a^{\circ} \times w 5a^{\circ} \qquad \frac{4\chi = 5a^{\circ}}{128^{\circ}}$$
 since W and is the supplementary (20tal 180°), so $\frac{4\chi = 128^{\circ}}{4\chi = 128^{\circ}}$
 $4\chi = 128^{\circ}$
What is the supplement of $\angle w$?
 χw and its complement total 90°, so
its complement is 38°.

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



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.)

$$C = \pi d \qquad A = \pi r^{2}$$

$$Since 8.8 is the diameter
$$C = (3.14)(8.8) \qquad 4.4 is the radius$$

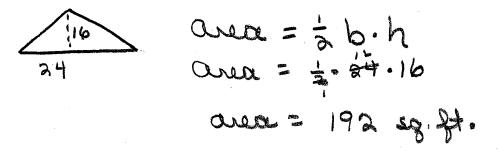
$$= 27.632 \qquad A = \pi (4.4)^{2}$$

$$C = 27.6 \text{ ft.} \qquad A = (3.14)(19.36)$$

$$A = 60.7904$$

$$A = 60.8 \text{ ft}^{2}$$$$

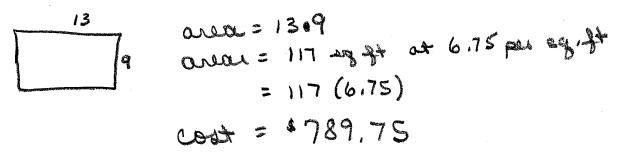
A triangular-shaped plot of ground has a base of 24 meters and an altitude of 16 meters. Find its area.



19. 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: $8'' \times 16'' \times 11''$. If the tank were filled completely to the top with water, how many cubic inches of water would be in the tank?

volume = 1408 cubic inches