

**Correctly answer each question.**

1) In the following data set, find the MEAN: \_\_\_\_\_, MEDIAN: \_\_\_\_\_ MODE(s) (if any): \_\_\_\_\_

LOWER QUARTILE: \_\_\_\_\_ UPPER QUARTILE: \_\_\_\_\_ RANGE: \_\_\_\_\_

OUTLIERS (if any) \_\_\_\_\_

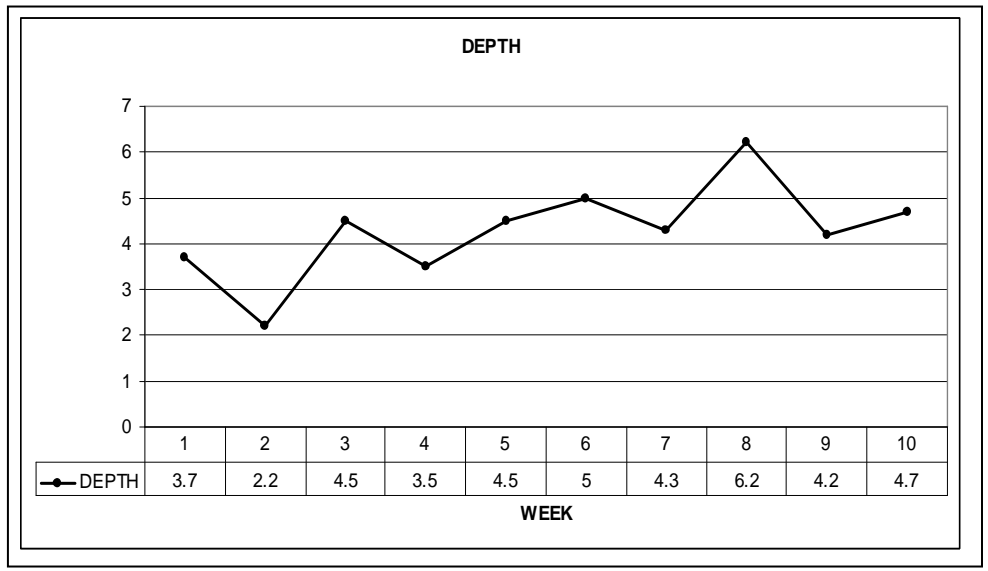
2.2, 0.9, 8.4, 3.2, 1.9, 6.8, 3.1, 28.0, 0.0, 1.3, 0.0

\_\_\_\_\_ 2) In the LINE graph at right, how much did the depth increase from week 4 to week 6?

\_\_\_\_\_ 3) In the graph at right, between what 2 weeks did the depth DECREASE the most?

\_\_\_\_\_ 3b) Between which 2 weeks did the depth DECREASE by 1.0 feet?

\_\_\_\_\_ 4) Simplify:  $4(8 - 10) + 1$



Store the following values in the

given variables using the  and  keys:  $x = 2.05$ ,  $y = -2.55$ ,  $z = \frac{1}{2}$

\_\_\_\_\_ 5)  $x^2 - y^2$

\_\_\_\_\_ 6)  $\frac{y}{2} + 2x$

\_\_\_\_\_ 7)  $-z + y$

\_\_\_\_\_ 8) Round  $\frac{\pi}{3}$  to the nearest  $100^{\text{th}}$ .

\_\_\_\_\_ 8a) Round  $\sqrt{\pi}$  to the nearest  $10,000^{\text{th}}$

\_\_\_\_\_ 9) Multiply  $3.78 \cdot 2.89$  and round your answer to the nearest  $10^{\text{th}}$ .

**SOLVING EQUATIONS AND INEQUALITIES.** Solve each equation. Show your steps!

**You MAY GET A MIXED NUMBER ANSWER!!!!**

10)  $\frac{4}{3}x + 2 = -5$

11)  $\frac{7}{8}x + 2 = -14$

12)  $-4x - 30 = 130$

\_\_\_\_\_ 14) Your average quiz score in a class is 92 points. You've taken 7 quizzes. How many total points do you have?

15) LISA \_\_\_\_\_ TESS \_\_\_\_\_ Lisa rounded 3.9 and 2.1 and multiplied them. Her estimated answer was 8. Her friend, Tess, said 6 is a better answer. Who's right? Explain.

\_\_\_\_\_ 16 Out of 153 coins in a child's piggy bank, 28 of them were GOLD DOLLARS. What percentage of the coins were DOLLAR COINS?

\_\_\_\_\_ 17) If you multiply using the DISTRIBUTIVE PROPERTY in this expression:  $-2(-3x - 4)$  which of the following would you get?

- a)  $8x - 6$    b)  $-6x - 6$    c)  $6x - 8$    d)  $6x + 8$

\_\_\_\_\_ 18) In the grid at right, find the length of the "slanty line."

\_\_\_\_\_ 19) Which of the following shows this expression simplified?  $-3x + 8 - 7x - 2$

- a)  $10x - 6$    b)  $-4x + 6$    c)  $-10x - 6$    d)  $-10x + 6$

\$ \_\_\_\_\_ 20) What is the sales tax (\$) on a \$500.00 purchase if the tax rate is 5.25%?

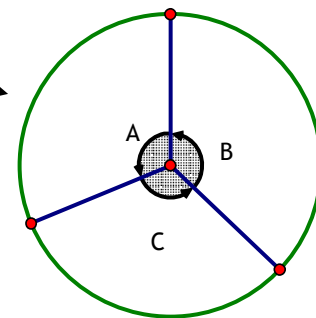
\_\_\_\_\_ 21) You paid \$7.42 in sales tax on a purchase. The tax rate was 7.25%. How much did your item cost before sales tax?

\_\_\_\_\_ 22) Use   to find the REMAINDER in this division problem:  $43 \overline{)85,002}$

\_\_\_\_\_ 23) In the circle at right, Angle A is  $108.5^\circ$ , and Angle C is  $101^\circ$ . Find the measure of Angle B.

\_\_\_\_\_ 24) In the circle at right, if Angle A is  $108.5^\circ$ , what percent of the circle is that?

\_\_\_\_\_ 25) Find the volume of a RECTANGULAR PRISM (BOX) that has a width of  $2\frac{1}{2}$  cm, a length of 3.6 cm and a height of  $\sqrt{3}$  cm. Round to the nearest thousandth.



\_\_\_\_\_ 26) Find the length of the hypotenuse in the triangle at right.

27) Convert each fraction to a percent.

- $\frac{5}{8}$  \_\_\_\_\_  $\frac{3}{5}$  \_\_\_\_\_  $\frac{10}{7}$  \_\_\_\_\_  $\frac{15}{3}$  \_\_\_\_\_  $\frac{13}{6}$  \_\_\_\_\_  $\frac{8}{9}$  \_\_\_\_\_

28) Convert each percent to a REDUCED fraction: Type each NUMBER. Use the convert button . \_\_\_\_\_



- $5\frac{1}{5}\%$  \_\_\_\_\_  $22.5\%$  \_\_\_\_\_  $44\%$  \_\_\_\_\_  $9\frac{1}{3}\%$  \_\_\_\_\_

29) In the triangle at right, what is the FORMULA we use to find the length of the HYPOTENUSE? Copy it from the poster in the front of the room.

