



Correctly answer each question. REVIEW

_____ 1) Use the following data set to determine the MEAN _____, MEDIAN _____
 LOWER QUARTILE _____, UPPER QUARTILE _____, RANGE _____

3, 2, 7, 6, 1, 8, 9, 4, 11, 5, 12, 15, 13, 14, 0

Write the data set in ascending order

_____ 2) Simplify $\frac{1}{3}(12-3)+1$

_____ 4) Store the following values in the given variables using the  and  keys:
 $x = \sqrt{5}$, $y = 5$, $z = 3$

_____ 5) $y^2 - x^2$ _____ 6) $\frac{y}{\sqrt{5}} + 2$ _____ 7) $z - 6$

_____ 8) Round $\frac{3}{7}$ to the nearest 100^{th} . _____ 8a) Round $\sqrt{11}$ to the nearest $10,000^{\text{th}}$

_____ 9) Divide $453 \div 17$ and round your answer to the nearest 10^{th} .

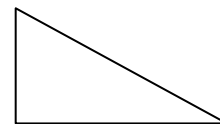
SOLVING EQUATIONS AND INEQUALITIES. Solve each equation. Show your steps!

10) $\frac{4}{7}x + 3 = -9$ 11) $\frac{1}{5}x + 2 = -14$ 12) $-8x - 2 = 118$

_____ 14) Your GPA is 3.50 because you received an A in English, an A in math, an A in history, a A in science, a B in P.E. and a B in Anthology.

What would your GPA be if your Anthology grade dropped to an B? (A=4, B=3, C=2, D=1, F=0)

_____ 15) Lisa measured the right triangle at right. The height is 0.6 inches and the base is 1.1 inches. Lisa used the Pythagorean Theorem to find the length of the hypotenuse and got 1.57 inches. Show how she did that.



_____ 16) Marta had 354 coins in her savings bank. She had 97 quarters, 11 dimes, and 33 nickels. If the remaining coins were pennies, how many pennies did she have?

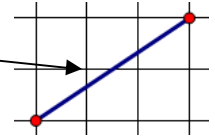
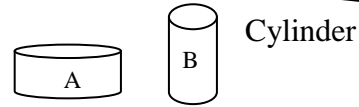
_____ 17) Use the distributive property to simplify this expression: $2(-3x + 4)$

_____ 18) In the grid at right, find the length of the “slanty line.”

19) Cylinder A has a radius of 5 cm and a height of 3 cm.

B has a radius of 3 cm and a height of 5 cm.

Which one has the greater volume? _____ By how much is its volume greater? _____



\$ _____ 20) What is the sales tax (\$) on a \$500.00 purchase if the tax rate is 7.25%?

\$ _____ 20b) What is the TOTAL COST including tax on a \$500.00 purchase if the tax rate is 8.25%?

\$ _____ 21) You paid \$7.16 in sales tax on a purchase. The tax rate was 9.25%. How much did your item cost before sales tax?

_____ 22) Write the remainder from this division problem. $59,701 \div 235$

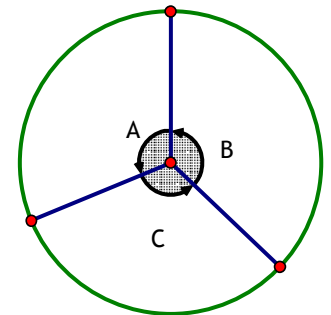
_____ 23) In the circle at right, Angle A is 34% of the whole circle. How many degrees is that?

_____ 24) In the circle at right, if the radius is 7, find the area.

_____ 24b) In the circle at right, if the radius is 7, find the circumference.

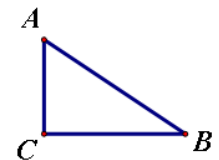
_____ 25) Find the volume of a RECTANGULAR PRISM (BOX) that has a width of 3 cm, a length of $\frac{1}{2}$ cm and a height of $\sqrt{9}$ cm.

_____ 26) Find the height of the triangle at right if the hypotenuse is 3.61 and the base is 3.



27) Convert each fraction to a percent.

$$\frac{4}{7} \quad \frac{3}{9} \quad \frac{11}{8} \quad \frac{9}{11}$$



Convert each percent to a REDUCED fraction:

$$5\frac{3}{7}\% \quad 21.2\% \quad 6\frac{2}{3}\%$$



29) Find the volume of this cone if the height is 6 and the radius is 5. Here's the formula:

$$Volume_{cone} = \frac{\pi r^2 h}{3}$$