

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) _____

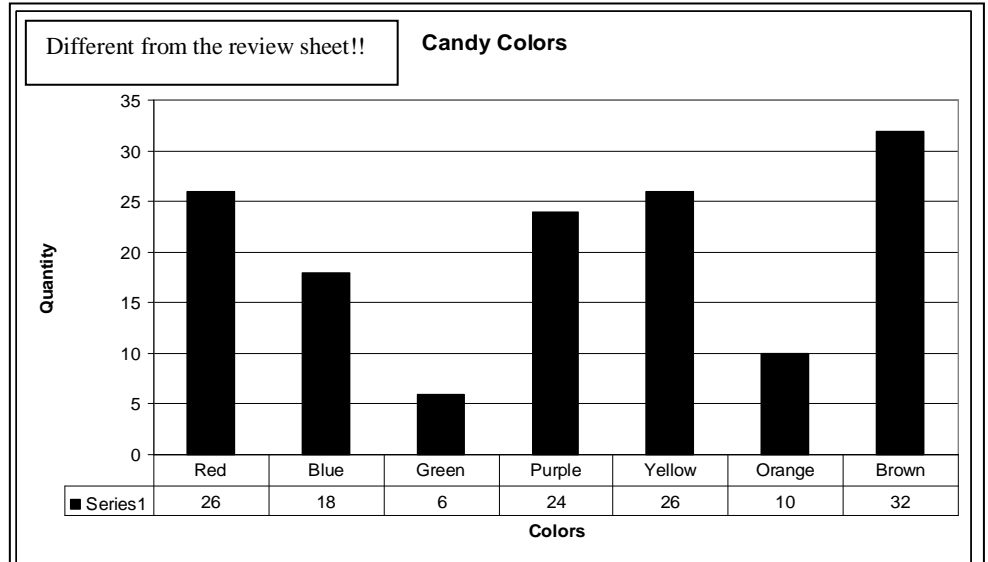
1, 30, 5, 11, 10, 12, 15, 5, 9, 5, 10, 11, 30, 19, 32, 3, 5, 14, 21

_____ 2) In the BAR graph at right, how many BLUE and YELLOW candies are there?

_____ 3) In the graph at right, what is the TOTAL number of candies?

_____ 3b) How many MORE YELLOW candies are there than PURPLE candies?

_____ 4) Simplify: $3 + 2(4 - 7)$



Store the following values in the

given variables using the **sto** key and **x^{yz}abc** keys: $x = 0, y = 3, z = 1.5$

_____ 5) $(x)^2 + (z)^2$

_____ 6) $z + x(10)$

_____ 7) $-z + y$

_____ 7b) 5^x

_____ 7c) $\frac{-y}{z}$

_____ 7c) $3 - x + y - z$

_____ 8) Round 3π to the nearest 100^{th} .

_____ 8a) Round $\sqrt{5}$ to the nearest 1000^{th}

_____ 9) Divide $222 \div 7$ and round your answer to the nearest 10^{th} .

SOLVING EQUATIONS AND INEQUALITIES. Solve each equation. Show your steps! show your solution on the number line above the problem.

10) $\frac{1}{4}x + 3 = 10$

11) $\frac{1}{3}x + 4 = -5$

12) $-3x - 5 = 58$

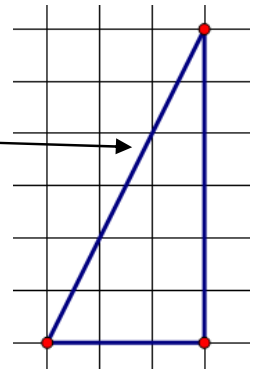
_____ 14) You scored a 85 on the first THREE QUIZZES.
What would your new average be if you scored a 95 on the FOURTH quiz?

15) YES ___ NO _____ Lisa rounded 9.02 and 9.95 and multiplied them. Her estimated answer was 100. Was that a good estimate? Explain.

_____ 16 Out of 150 coins in a child's piggy bank, 43 of them were quarters. What percentage of the coins were quarters?

_____ 17) If you multiply using the DISTRIBUTIVE PROPERTY in this expression: $5(-4x + 6)$ which of the following would you get?

- a) $9x + 11$ b) $-20x + 30$ c) $20x + 11$ d) $1x + 11$



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

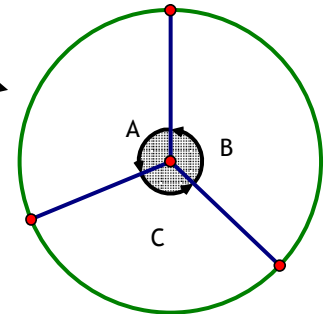
_____ 19) Which of the following shows this expression simplified? $-3x - 8 - 7x + 2$

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

\$ _____ 20) What is the sales tax (\$) on a \$5.00 purchase if the tax rate is 9.25%?

_____ 22) Use   to find the REMAINDER in this division problem: $59 \overline{)90,654}$

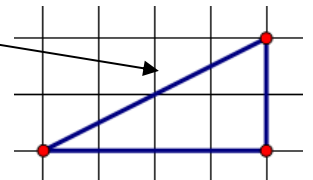
_____ 23) In the circle at right, Angle A is 112.5° , and Angle C is 114° .
Find the measure of Angle B.



_____ 24) In the circle at right, if Angle A is 112.5° , what percent of the circle is that?

_____ 25) Find the volume of a RECTANGULAR PRISM (BOX) that has a width of 3.5 cm, a length of 2.8 cm and a height of 4.7 cm.

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



27) Convert each fraction to a percent.

$\frac{3}{4}$ _____ $\frac{4}{3}$ _____ $\frac{9}{5}$ _____ $\frac{12}{6}$ _____ $\frac{11}{10}$ _____ $\frac{1}{8}$ _____

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



$16\frac{2}{3}\%$ _____ 14% _____ 64% _____ $12\frac{1}{2}\%$ _____

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.

