

Correctly answer each question. Bonus questions are not required, but will add extra credit points.

1) In the following data set, find the MEAN: _____, MEDIAN: _____, MODE: _____

LOWER QUARTILE: _____ UPPER QUARTILE: _____

82 88 82 82 87 86 87 87 80 79 87 82 79 90 77

_____ 2) In the BAR graph at right, how many students passed the quiz?

_____ 3) In the graph at right, how many more students got Cs than got Ds?

_____ 4) Simplify: $2 + 2(5 - 4)$

In questions 5-7, use these values for x, y and z:

$x = 3, y = 4, z = 0$

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

_____ 6) $10z + y$

_____ 7) y^5

_____ 8) Multiply 2.79×7.002 and round your answer to the nearest 100^{th} .

_____ 9) Divide $3721 \div 19$ and round your answer to the nearest 1000^{th} .

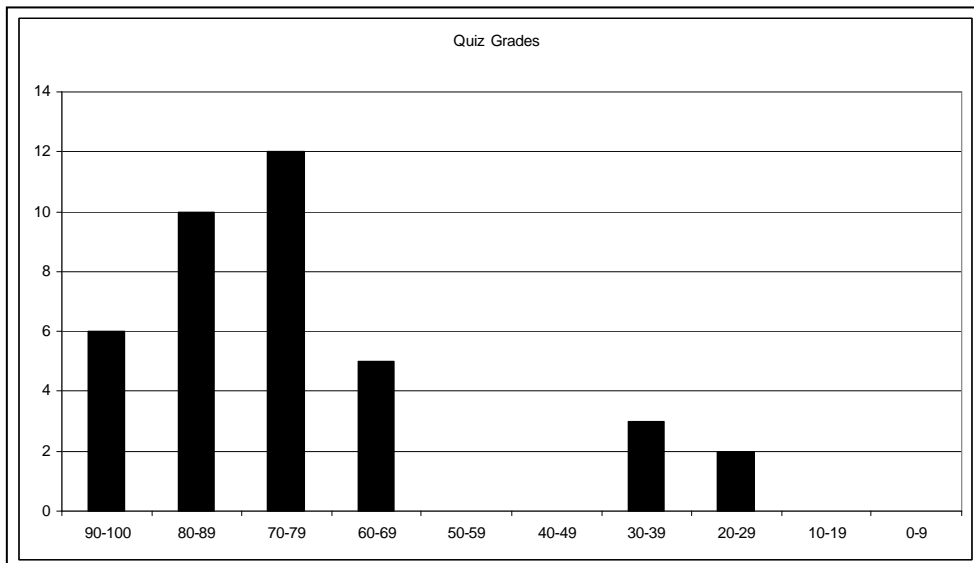
SOLVING EQUATIONS AND INEQUALITIES. Solve each.. Show your steps! For #11, show your solution on the number line above the problem. (In the equations with fractions, don't forget to multiply by the reciprocal!)

Bonus) $\frac{3}{4}x - 7 = 5$

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

Bonus) $-3x - 15 = -3$

_____ 14) You scored a 99 on the first quiz. What would your new average be if you scored a 89 on the second quiz?



15) YES ___ NO ___ Lisa rounded 4.06 and 9.95 and multiplied them. Her estimated answer was 40. Was that a good estimate? Circle and explain your answer in the space provided

16) If a marine biologist collected 19 catfish and 11 of them were over 40cm in length, what percent of the catfish were over 40cm in length?

17) If you multiply using the DISTRIBUTIVE PROPERTY in this expression: $4(2x + 5)$ which of the following would you get?

- a) $-8x - 20$ b) $8x - 20$ c) $8x - 5$ d) $8x + 20$

18) Simplify $|-10| - |10|$

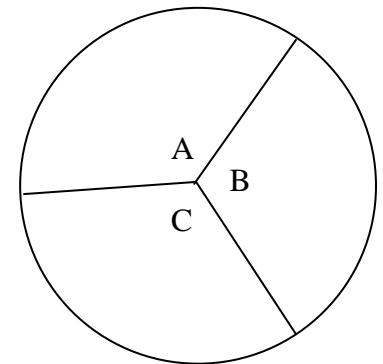
19) Which of the following shows this expression simplified? $3x + 9 + 7x + 3$

- a) $10x + 12$ b) $4x + 6$ c) $-4x - 6$ d) $6x + 4$

20) What is the sales tax (\$) on a \$25.00 purchase if the tax rate is 7.25%?

22) Find the remainder in this division problem: $6 \overline{)3117}$

23) In the circle at right, Angle A is 104° , and Angle B is 106° . Find the measure of Angle C

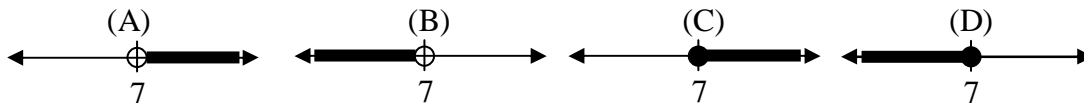


24) In the circle at right, if Angle A is 104° , what percent of the circle is that? Hint: Divide 104 by 360

Bonus) Find the Fahrenheit temperature if the Celsius temperature is 1. Use the formula

$$F = \frac{9}{5}C + 32$$

Bonus) In the inequality $3x - 4 \leq 17$ which of the following would be the correct graph of the solution?



27) Convert each fraction to a percent: $\frac{3}{4}$ _____ $\frac{1}{3}$ _____ $\frac{2}{5}$ _____ $\frac{5}{6}$ _____ $\frac{3}{10}$ _____

28) Convert each percent to a REDUCED fraction:

$33\frac{1}{3}\%$ _____ 5% _____ 75% _____ $66\frac{2}{3}$ _____