

DUE THURSDAY

Name _____

Hr. _____

HW 1.1 - Math Skills and Elements

BY FRIDAY, MEMORIZE THESE FIVE NAMES & SYMBOLS:

- ~~Determine the name for the following symbols.~~
- | | | | | |
|----|----|----|-----------|-------|
| a. | H | is | hydrogen | _____ |
| b. | He | is | helium | _____ |
| c. | Li | is | lithium | _____ |
| d. | Be | is | beryllium | _____ |
| e. | B | is | boron | _____ |

Some people use flash cards to memorize these. We will memorize 26 by Oct. 1.

Complete the following math problems:

1. Solve for X. (rearrange to get X by itself on one side of the equals sign) Strategy: Divide both sides by 3 $3x = 28$ $\frac{3x}{3} = \frac{28}{3}$ $x = \frac{28}{3}$	2. Solve for X. $\frac{12+x}{3} = 2$ $3 \frac{(12+x)}{3} = 2 \cdot 3$ $12+x = 6 \Rightarrow x = -6$
3. Solve for X. $\frac{36}{x} = 6$ $x \cdot \frac{36}{x} = x \cdot 6$ $36 = 6x$	4. Solve for X. $\frac{x}{2} \cdot \frac{x}{8} = 1$ $x = 4$
5. Simplify. $\frac{4}{3} \cdot \frac{6}{9}$ $\frac{8}{9}$	6. Simplify $\frac{x}{3} \cdot \frac{12}{x}$ 4
7. Simplify: $(x^8)(x^2)$ Rule: Exponents add if multiplied bases. x^{10}	8. Simplify: $\frac{(x^9)}{(x^3)}$ Rule: Divided bases, subtract exponents. x^6

For fun, PLEASE GO ONLINE TONIGHT AND READ <http://genest.weebly.com>

2. In each line below, either circle true or false:

a. (True/False) $1.23 \times 10^5 = 123000$.

b. (True/False) $5.1 \times 10^5 = 5100000$.

c. (True/False) 1000 meters = 1 millimeter

d. (True/False) 10 millimeters = 1 centimeter

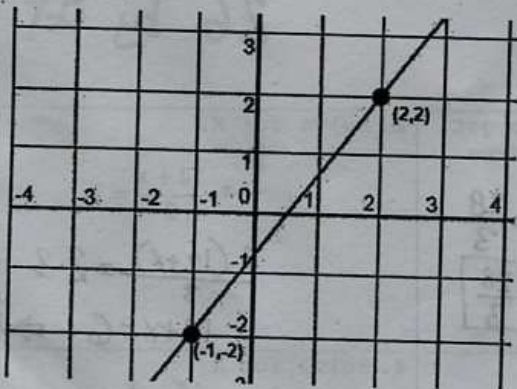
e. (True/False) 1000 grams = 1 kilogram

NOT ON OUR QUIZ

3. What is the slope of this line in the below graph? (Show work!)

$$\frac{\Delta y}{\Delta x} = \frac{2 - (-2)}{2 - (-1)} = \frac{4}{3}$$

ANSWER:
SLOPE IS
 $\frac{4}{3}$



4. Using the above graph, explain how the slope would change if the top point was at (1,2) instead of (2,2), would the slope increase or decrease?

SLOPE DECREASES

Show How

5. ~~How~~ the line look different if there was a negative slope? make a crude sketch here:

A
negative
SLOPE
GOES
DOWN
from
Left to
RIGHT

