

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:

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1. Solve for X. (rearrange to get X by itself on one side of the equals sign)

$$3x = 28$$

2. Solve for X.

$$\frac{12 + x}{3} = 2$$

3. Solve for X.

$$\frac{36}{x} = 6$$

4. Solve for X.

$$\frac{x}{2} \times \frac{x}{8} = 1$$

5. Simplify.

$$\frac{4}{3} \times \frac{6}{9}$$

6. Simplify

$$\frac{x}{3} \times \frac{12}{x}$$

7. Simplify:

$$(x^8)(x^2)$$

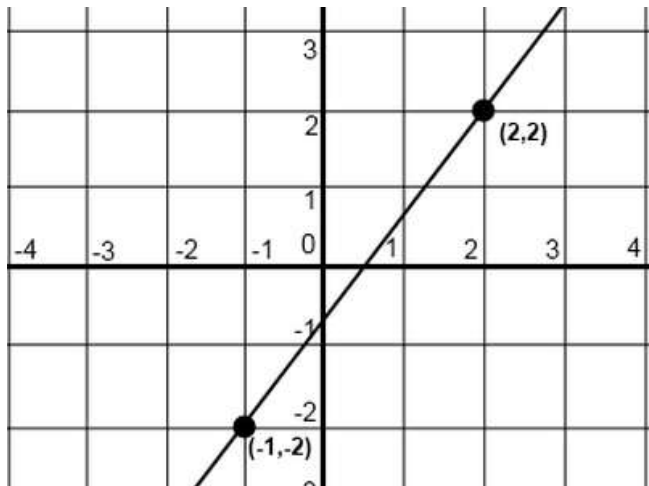
8. Simplify:

$$\frac{(x^9)}{(x^3)}$$

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

- (True / False) $1.23 \times 10^5 = 123000$.
- (True / False) $5.1 \times 10^5 = 5100000$.
- (True / False) 1000 meters = 1 millimeter
- (True / False) 10 millimeters = 1 centimeter
- (True / False) 1000 grams = 1 kilogram

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



3. Using the above graph, explain how the slope would change if the top point was at (1,2) instead of (2,2).

4. How would the line look different if there was a negative slope?