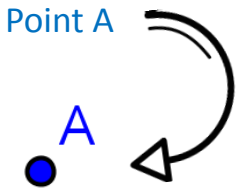
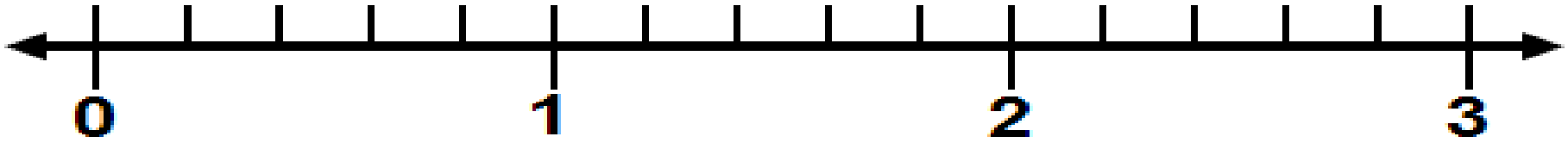
CL 4-85. Draw a number line and place a point for each of the following portions on it.



Use a point for each letter to show where the fraction, decimal, or percent belongs. See example to the left for how each labeled point should look. Place the points directly above the number line where you think they are most accurate. You may write in values you already to know to help you navigate Points a through h.



a. $\frac{4}{5}$

b. 0.003

c. 30%

d. $\frac{7}{6}$

e. 0.75

f. $\frac{3}{7}$

g. $\frac{1}{3}$

h. $\frac{112}{112}$

CL 4-86. Evaluate the following algebraic expressions.

Substitute the values given for each variable. Show ALL work!!!!

a. Find the value of $7m + 9$ for $m = 2$.

b. Find the value of $a \cdot b$ for $a = 10$ and $b = 4$.

CL 4-87. Write an expression to represent the length of each of the ropes shown below. Then find the length of each rope if $x = 20$, $j = 10$, and $k = 7$.

a.

x x x x 9

Expression a: _____ **The total length is:** _____

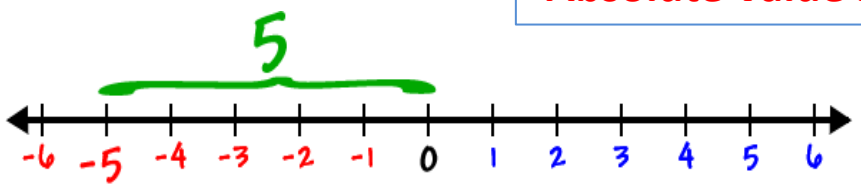
b.

j j k 6 5

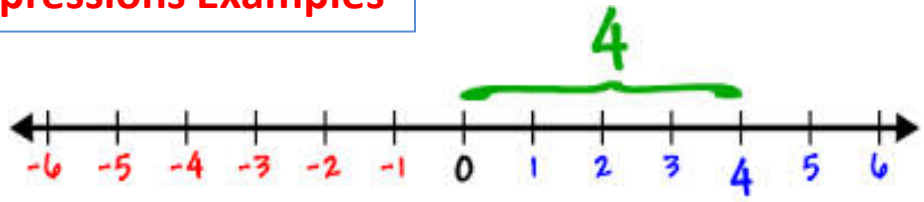
Expression b: _____ **The total length is:** _____

CL 4-88. Simplify each expression.

Absolute Value Expressions Examples



$|-5| = 5$



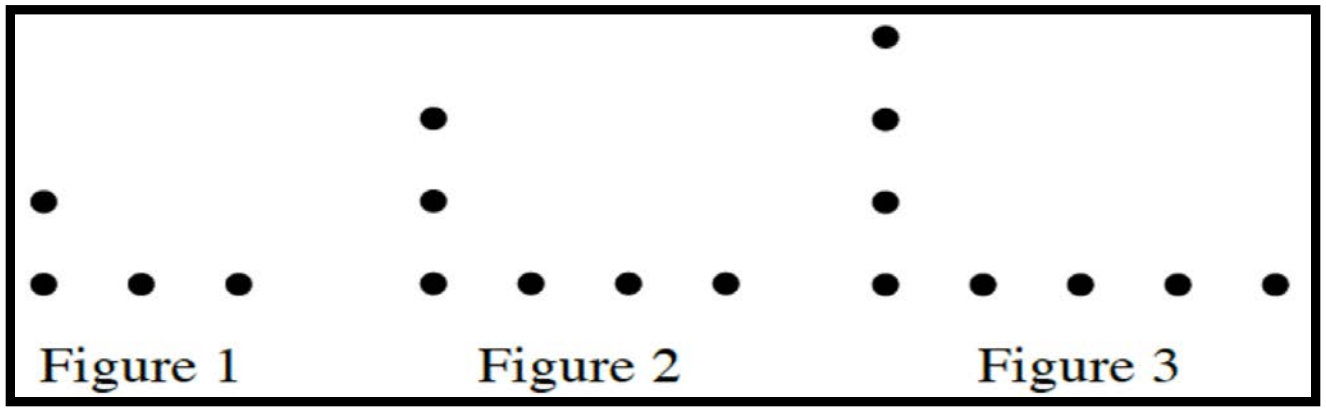
$|4| = 4$

a. $|15| + |-1|$

b. $|6| + |0|$

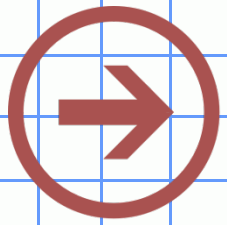
c. $-|2| + |8|$

CL 4-89. Copy the dot pattern below and draw Figures 0, 4, and 7. Write an expression to describe how the pattern is growing.



Draw Figure 0 below:	Draw Figure 4 below:	Draw Figure 7 below:

CL 4-90. Draw a right triangle on graph paper that has a base of 4 units and a height of 2 units. Enlarge it so that each side is 2.5 times as long as the original.



Draw Original Right Triangle Above

Draw Enlarged Right Triangle Above

CL 4-91. Describe how each of the following enlargement or reduction ratios would change the size of a photograph. The given ratios are from the new figure to the original figure.

HINT: Based on the ratios, will the original photograph increase in size, decrease in size, or will dimensions remain the same? Write a sentence to describe the changes each ratio will make.

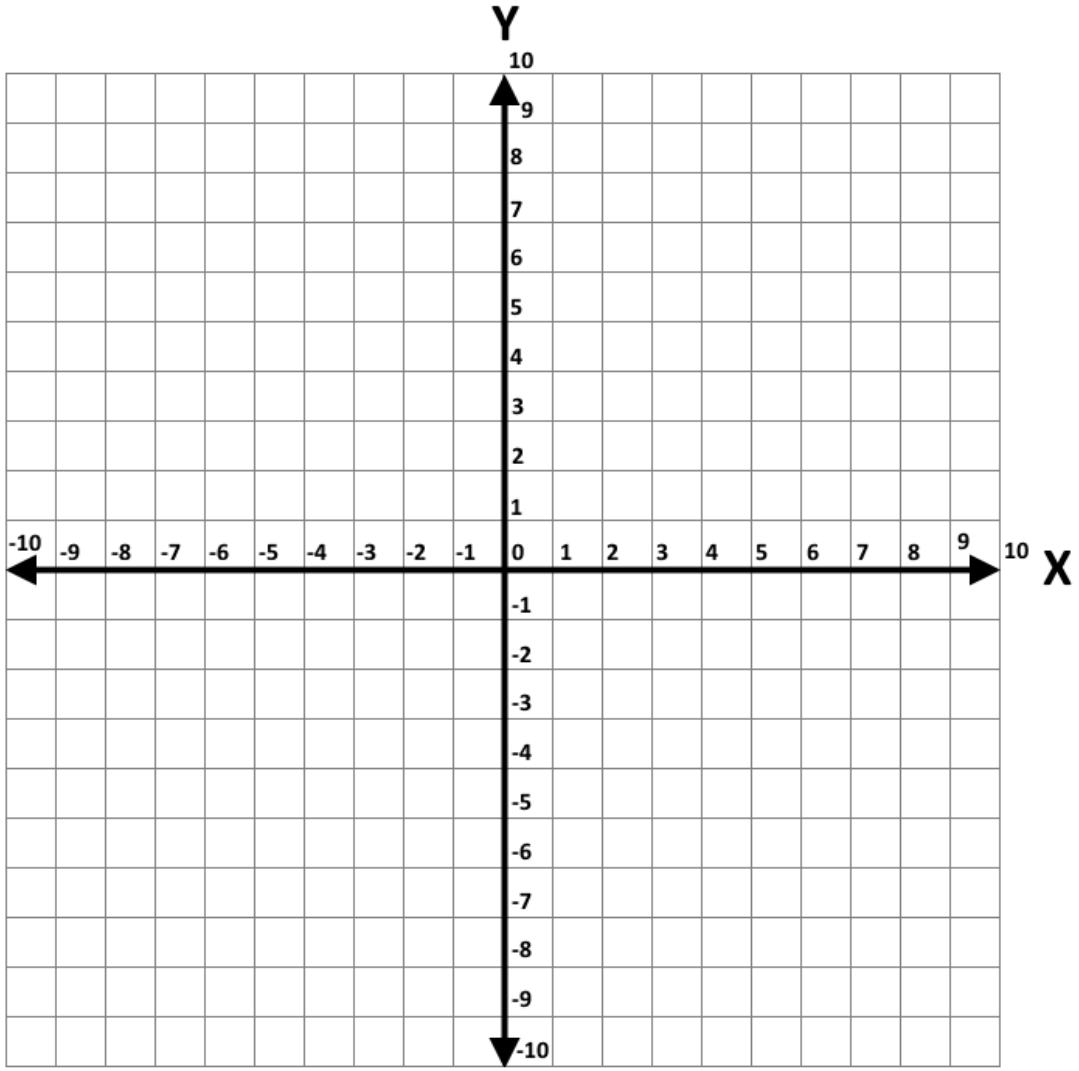
a. 1

b. $\frac{1}{2}$

c. $\frac{3}{4}$

d. 2.5

CL 4-92. Use a coordinate grid to plot the points $(-2, 3)$ and $(4, 5)$. Then plot two more points so that all four points form vertices of a rectangle



What are the dimensions of your rectangle?

_____

What is the perimeter of your rectangle?

_____

What is the area of your rectangle?

_____