Chapter 4 Review Problems

CL 4-88. Simplify each expression.

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.

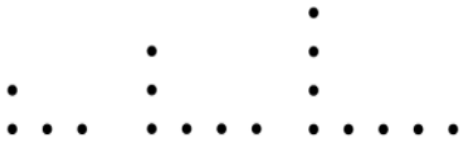


Figure 1 Figure 2 Figure 3

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.

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.

a. $\frac{15}{2}$

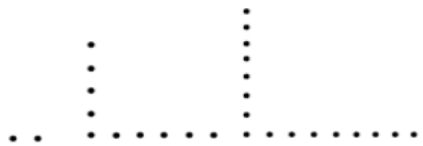
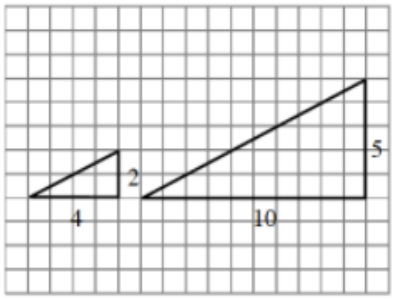
b. $\frac{4}{3}$

c. $\frac{5}{6}$

d. $\frac{12}{12}$

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 with a horizontal length. Next, find the length of each side. Write an absolute value expression to show how you calculated each length.

Answers:

CL 4-88.	a. 16 b. 6 c. 6
CL 4-89.	 Figure 0 Figure 4 Figure 7 Two dots are added to each figure: one on the far right and one on the top. $(n + 2) + n$
CL 4-90.	
CL 4-91.	a. Each of the sides would get a lot (more than 7 times) longer. b. Each of the sides would get a little bit longer. c. Each of the sides would get a little bit shorter. d. Each of the sides would stay exactly the same length.
CL 4-92.	Points: (−2, 5) and (4, 3) Length: $\lvert -2\rvert + \lvert 4\rvert = 6$ units Width: $\lvert 5\rvert - \lvert 3\rvert = 2$ units