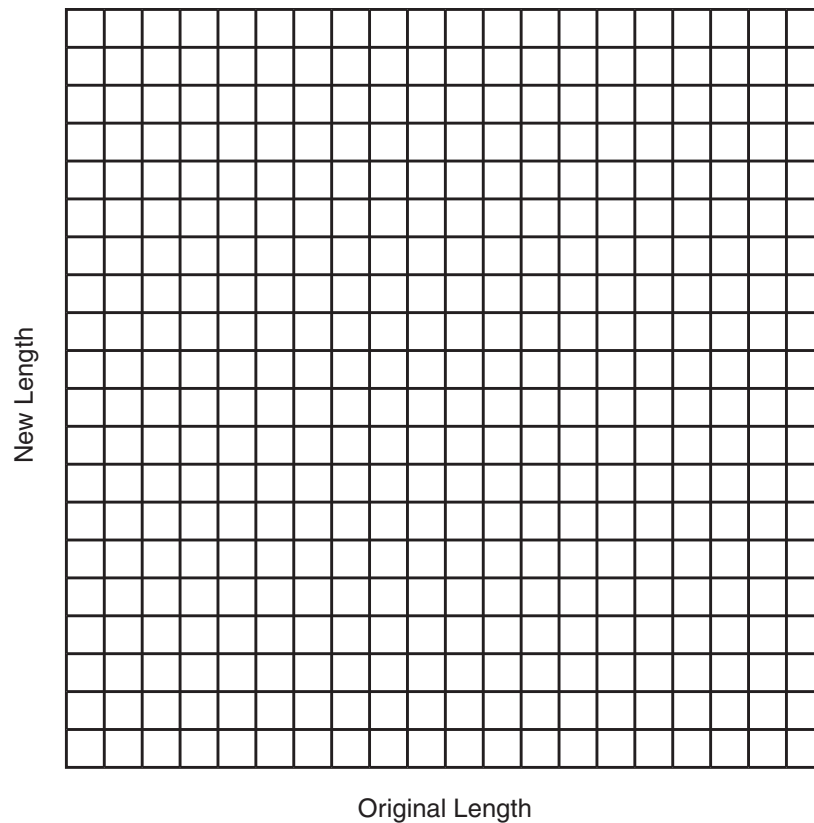


Perplexing Puzzle

Activity 2



1. Describe the graph.
2. What does the ordered pair (8, 12) mean in this problem?
3. If we are looking for y in the ordered pair (12, y), state what this means in words.
4. Compare the ratios of y/x for each ordered pair graphed. What is significant about these ratios? Explain.
5. What is another name for 1.5 or $3/2$ in this setting?
6. Use a graphing calculator to graph $y = 1.5x$, and set up a table of values. Use the table of values to answer these questions:
 - a. If the length of a side of the new puzzle piece is 34.5 cm, how long was a side of the original puzzle piece?
 - b. If a side of the original puzzle piece is 29 cm, how long would a side of the new puzzle piece be?

