

Lesson 4.8 ~ Patterns and Functions

Name _____ Period _____ Date _____

Fill in the missing values. Identify the first term and the operation that must be performed to arrive at the next term.

1. 2, 4, 6, 8, _____, _____

First Term: _____ Operation: _____

2. 19, 16, 13, _____, _____, _____

First Term: _____ Operation: _____

3. 4.4, 4.9, _____, 5.9, _____, _____

First Term: _____ Operation: _____

4. 240, _____, 160, 120, _____, _____

First Term: _____ Operation: _____

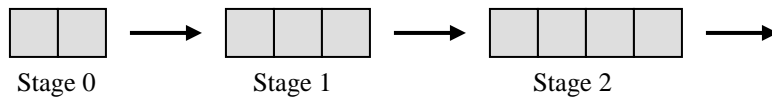
5. _____, 7.6, 6.3, 5.0, _____, _____

First Term: _____ Operation: _____

6. $1\frac{1}{2}$, 2, $2\frac{1}{2}$, _____, _____, 4

First Term: _____ Operation: _____

7. Squares, each side one unit in length, are fit together (one at a time) to form a long strip of squares.



- a. What is the perimeter of Stage 0 using two squares?
- b. What is the perimeter of the figure using three squares?
- c. Draw the next two stages in the pattern. What are the perimeters of these figures?
- d. What is the operation that describes the perimeters from one stage to the next?
- e. Predict the perimeter of the figure in Stage 6.