

Name: _____

Date: _____

BLM 1.3.1

Practice: Focus on Connecting

1. A tortoise travelled 4096 m in week one. Each week, it travelled half as far as the previous week. In what week will the tortoise travel 1 m?
2. Stefan has \$3.42 in coins. He has more than 7 coins, but fewer than 11 coins. What coins might he have?
3.
 - a) Draw a rectangle, a pentagon, and a hexagon. In each figure, draw all the diagonals from one vertex.
 - b) Count the number of triangles formed by the sides of each polygon and the diagonals. Describe the pattern in the number of triangles formed by the diagonals.
 - c) Use the pattern to predict the number of triangles in a polygon with 15 sides.
4. Ayesha rides the train to work each weekday. The fare each way is \$7.50. She won a \$3000 train pass. How long will it be before Ayesha has to purchase tickets? Explain your reasoning.