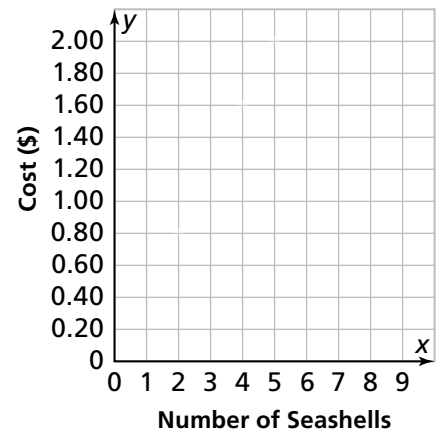Name: _____

2-5 Additional Practice
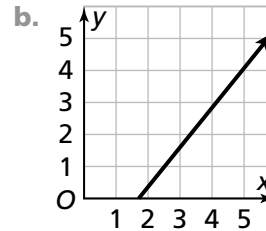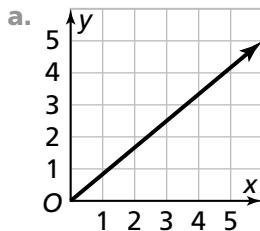
1. Three friends are buying seashells at the gift shop on the beach. Melanie buys 2 seashells for $0.80. Rosi buys 5 seashells for $2.00. Carlos buys 4 seashells for $1.60.
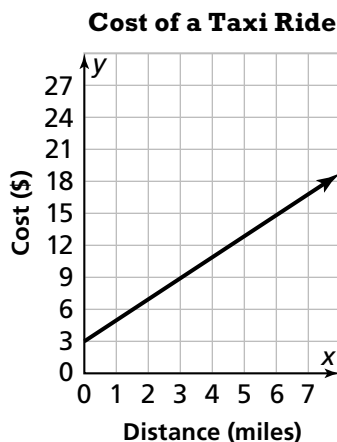
   Use a graph to determine whether the number of seashells and the cost have a proportional relationship. If so, what is the constant of proportionality and what does it mean?
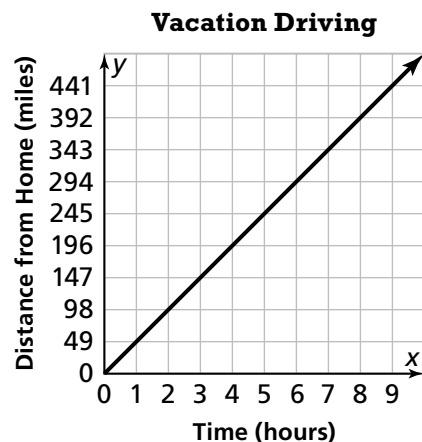

2. For each graph shown, tell whether it shows a proportional relationship. Explain why or why not.

   a.

   b.

3. The graph shows the relationship between the distance a taxi travels and the cost of the taxi ride. Is the relationship proportional? Explain.

Cost of a Taxi Ride

4. The graph shows a proportional relationship between a family's distance from home and the time spent driving.
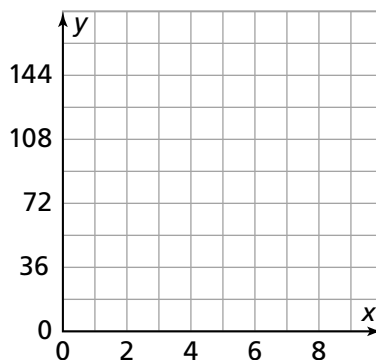
Vacation Driving

   a. What does the point (1, 49) represent?

   b. **Look for Relationships** Write an equation that represents the proportional relationship.
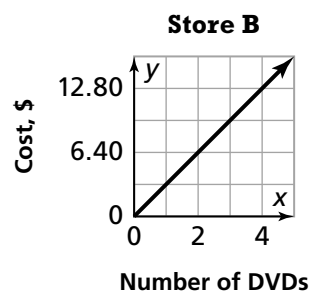
5. Two tickets to an ice skating performance costs $36. For five tickets it costs $90, and for nine tickets it costs $162.

   Model with Math Use the graph to determine whether the number of tickets and the cost have a proportional relationship. If so, what is the constant of proportionality and what does it mean?

6. **Higher Order Thinking** The table and graph show the costs to buy DVDs at two different stores.
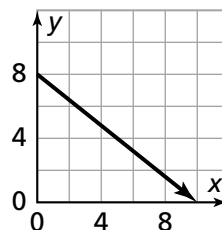
   a. Which store has the better deal on DVDs? Explain.

Store A

Number of DVDs (x)	Cost, $ (y)
2	6.30
3	9.45
4	12.60

Store B

Number of DVDs

   b. How much money will Sheila save if she buys 20 DVDs at the store with the better deal than at the other store?

Assessment Practice

7. Does the graph at the right show a proportional relationship between x and y? Explain. 🌐 7.RP.1.2a

8. The graph at the right shows the relationship between the weight of silver and the total cost. Which of the following statements about the graph are true? 🌐 7.RP.1.2a, 7.RP.1.2b

   ☐ The point (0, 0) means that 0 pounds of silver cost $0.00.

   ☐ The point (1, 17) shows the constant of proportionality.

   ☐ The point (4, 68) means that $4.00 is the cost for 68 pounds of silver.

   ☐ The point (2, 34) means that 34 pounds of silver cost $2.00 per pound.

   ☐ The graph shows a proportional relationship.

Weight (pounds)

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