Name _____ Date _____ Class _____
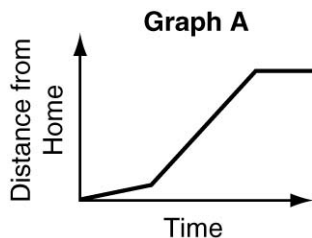
Practice C

Graphing Relationships

Choose the graph that best represents each situation.

Graph A

Graph B

Graph C
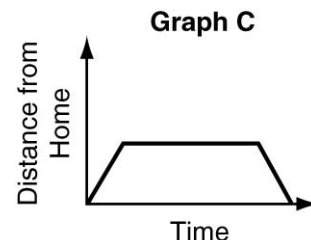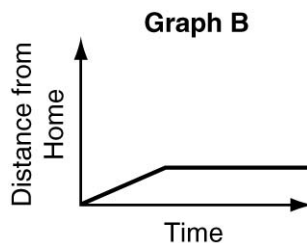
1. A person leaves home, drives through town, then on the highway, and finally stops at a rest area.

_____

2. A person leaves home, drives to the other end of town and buys groceries, then returns home.

_____

3. A person walks to a friend's house where she stays overnight.

_____

4. Franco's heart rate increases steadily as he does some warm-up exercises. He then maintains a steady heart rate for several minutes as he jogs. Finally, his heart rate slows down to normal with his cool-down walk. Sketch a graph to show Franco's heart rate over time as he exercises. Tell whether the graph is continuous or discrete.

_____
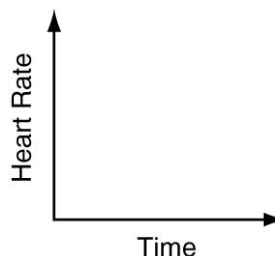
Write a possible situation for each graph.

5.

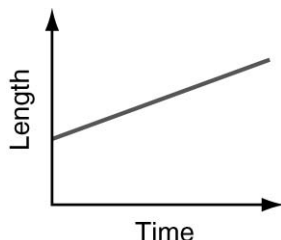
_____
_____
_____
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6.

_____
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_____
_____
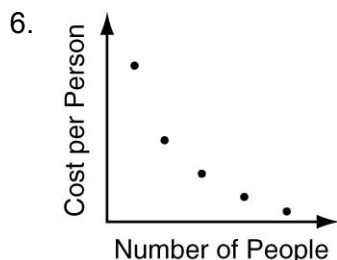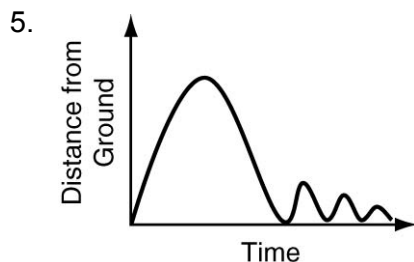
Answer Key For Functions

3-1 GRAPHING RELATIONSHIPS

Practice A

1. falling
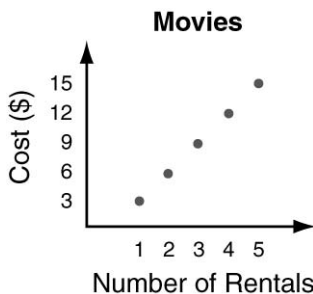2. staying the same
3. rising
4. Graph B
5. Graph C
6. Graph A

7.

continuous

8. Possible answer: A subway train has up to 6 cars. Each car can hold 40 passengers.

Practice B

1. Graph C
2. Graph B
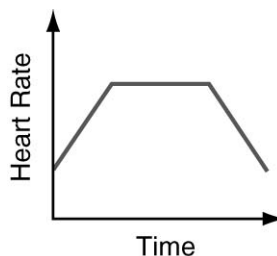3. Graph A

4.

Movies

discrete

5. Possible answer: A kitten gains weight quickly after birth, then more slowly, until it reaches its maximum weight.
6. Possible answer: Each package weighs 10 pounds. The box can hold up to 60 pounds.

Practice C

1. Graph A
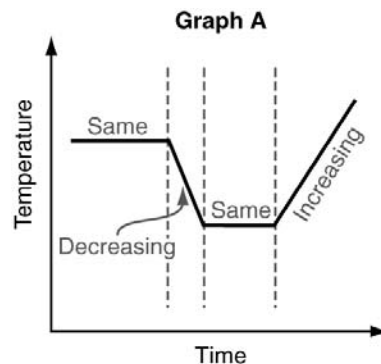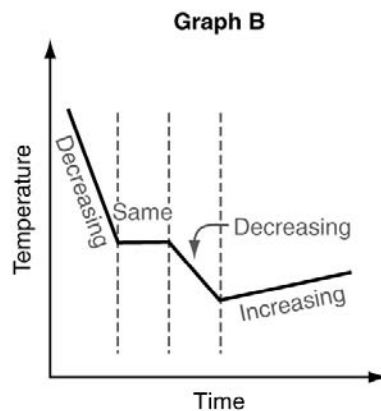2. Graph C
3. Graph B

4.

continuous

5. Possible answer: An object is thrown up in the air; drops to the ground, and bounces 3 times.
6. Possible answer: With each additional person in the group, the cost per person for a group trip drops.

Review for Mastery

1.

Graph A

2.

Graph B

3. Graph B

Holt McDougal Algebra 1