$\qquad$
$\qquad$
$\qquad$

## Practice C

## 4-1 Graphing Relationships

Choose the graph that best represents each situation.
Graph A

Graph B

Time
Graph C

Time

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


6.


## Practice A

4-1 Graphing Relationships
For each, write if the height is rising, falling, or staying the same



falling
staying the same $\qquad$

Choose the graph that best represents each situation.



4. The temperature of the water in a glas remained constant.

| Graph B |
| :---: |
| Graph C |號 steadily for several hours until it reached room temperature, then remained constant.



Write a possible situation for the graph

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

|  | 3 | Holt Algebra 1 |
| :---: | :---: | :---: |

4-1 Graphing Relationships
Choose the graph that best represents each situation.


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.
$\qquad$


Graph C
. A person walks to a friend's house where she stays overnight.
Graph B
3. 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. continuous


Write a possible situation for each graph.


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| Possible answer: An object is |
| :---: |
| thrown up in the air; drops |
| to the ground, and |
| bounces 3 times. |

$$
\begin{gathered}
\text { Possible answer: With each } \\
\hline \text { additional person in the group, } \\
\hline \text { the cost per person for a } \\
\hline \text { group trip drops. } \\
\hline
\end{gathered}
$$

## Practice B

## 4-1 Graphing Relationships

## Choose the graph that best represents each situation




Graph C

1. A tomato plant grows taller at a steady pace. $\qquad$
2. A tomato plant grows quickly at first, remains a constant height during a dry spell, then grows at a steady pace.

| Graph B |
| :---: |
| Graph A |

A tomato plant grows at a slow pace, then grows rapidly with more sun and water

Graph A
4. Lora has $\$ 15$ to spend on movie rentals for the week. Each rental costs $\$ 3$. Sketch a graph to show how much money she might spend on movies in a week. Tell whether the graph is
continuous or discrete. discrete


Write a possible situation for each graph


| Possible answer: A kitten gains weight |
| :---: |
| quickly after birth, then more |
| slowly, until it reaches its |
| maximum weight. |

6. $\frac{\stackrel{5}{5}}{\frac{0}{0}}$


Possible answer: Each package weighs 10 pounds. The box can hold up to 60 pounds

### 4.1 Graphing Relationships

Graphs are a way to turn words into pictures. Be sure to read the graphs from left to right.


Other descriptions
fell
lessened
diminished
ed

continuous each section


Divide each graph into sections where the graph changes directions. Then label the sections as increasing, decreasing, or same.

3. Which graph above shows that the air temperature fell steadily, leveled off, fell again, and then fell steadily, leveled
increased slightly?

Graph B


This graph increases, then stays constant increases again, and finally decreases sharply.
1.
2.

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