

**Pre-Algebra
Secondary Education
MAFS.8.F.2.5**

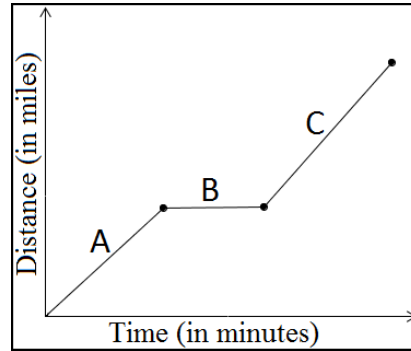


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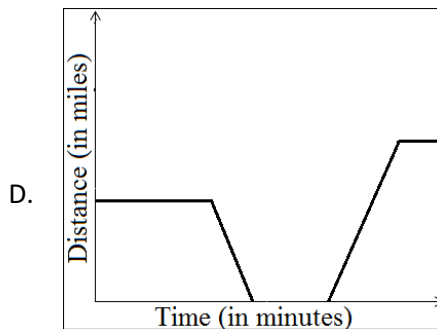
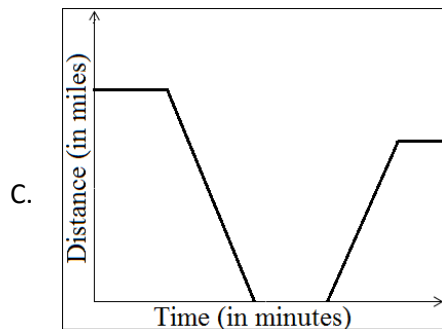
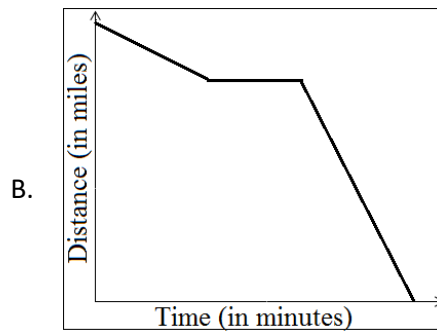
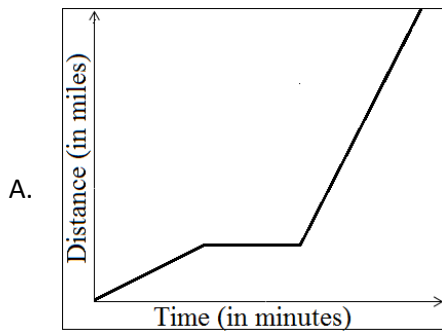
Name: _____ Date: ___/___/___

1. Nikki rode her bike to school. The function graphed below represents her ride where x is the time, in minutes, and y is the distance from her house, in miles. Match each section of the graph with statements that could be used to describe what is happening in this situation. More than one statement may apply to each section.

| A | B | C | |
|--------------------------|--------------------------|--------------------------|-----------------------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Her speed was the fastest. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Her speed decreased at a consistent rate. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | She stopped at an intersection. |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | She is traveling toward school at a constant speed. |



2. Kate drove home after spending a holiday with family. Initially, she drove at a constant speed. Then she stops to shop at an outlet mall. Finally, she drives at a faster constant speed to finish her trip home. Which graph **best** represents this situation if x is the time in minutes, and y is Kate's distance from home in miles?

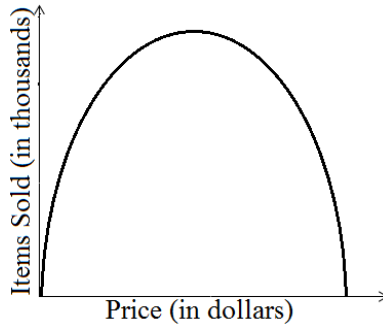


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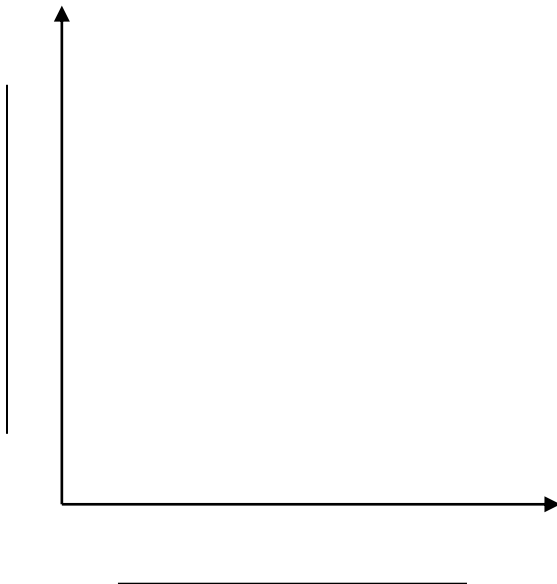
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3. Bryan wants to increase the price of his best-selling product. The function graphed below represents his sales where x is the price, in dollars, and y is the number of items sold, in thousands. Write a statement that describes Bryan's graph.



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| |

4. Carey tracked the number of visitors to her Caribbean resort over a year. She noticed that the resort accommodates the most visitors from January through March. In April the number begins to decrease rapidly until it reaches its lowest in May. The number of visitors is constant from May to August, when it begins to increase steadily. The number of visitors in November reaches the same level it was in January and remains constant through the end of the year. Construct a graph that displays Carey's data.



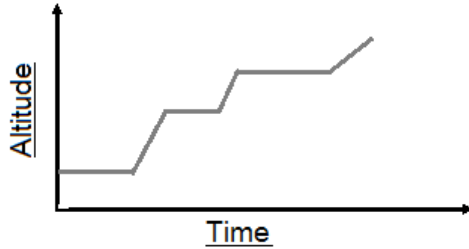
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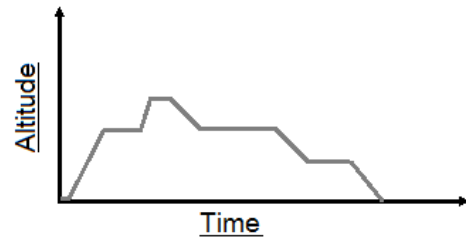
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5. Stark's private jet taxis to the runway and takes off. It climbs steadily to 30,000 feet where it flies for about an hour. The plane then climbs rapidly to 40,000 feet to avoid a storm. The plane descends to 30,000 feet after passing the storm. Finally, the plane descends 15,000 feet and travels at this new altitude until it descends steadily and lands. Which graph best displays Stark's flight?

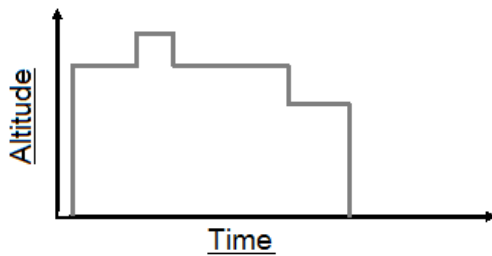
A.



B.



C.



D.

