

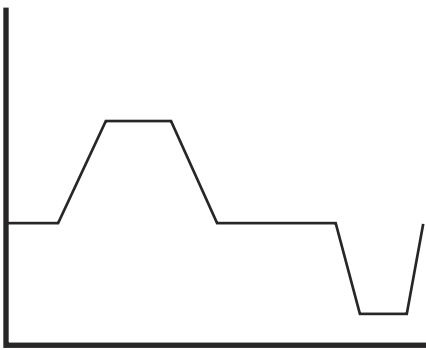
Holiday Problems

I can use line graphs to solve problems.



Below are three line graphs. Each line graph shows data from an aspect of the Kellets' and Mistrys' holiday.

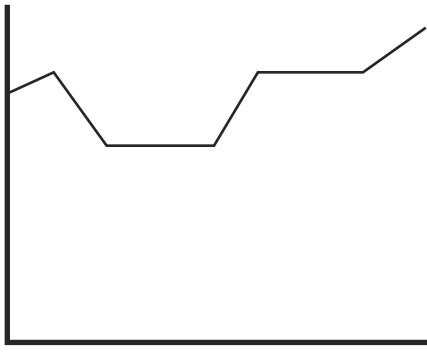
For each line graph, write a story to explain the data, then write two questions about the graph. Swap with a partner and answer each other's questions.



Story:

Question 1:

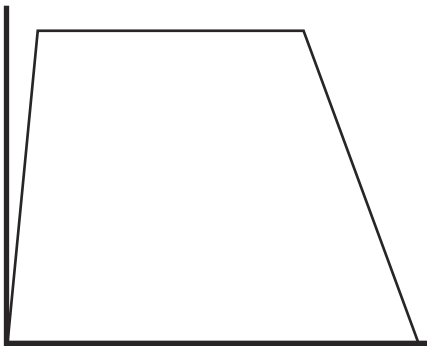
Question 2:



Story:

Question 1:

Question 2:



Story:

Question 1:

Question 2:

Holiday Problems Answers

Multiple answers possible. Example answers and questions are given.

Question	Answer
Graph 1:	
Story	<i>This graph shows the height above or below ground level the families were at as they visited a castle. They start at ground level, climb up to visit a tower, then come back to ground level. They then visit the dungeons below ground level, before returning to ground level.</i>
Question 1:	<i>The families visit the castle for 2 hours. For approximately how long are they below ground level?</i>
Question 2:	<i>For how long are the families at ground level?</i>
Graph 2:	
Story	<i>This graph shows the number of people at the hotel over one week. A family arrives, then two families leave. After some time, two more families arrive. Occupancy remains the same for some time, then another family arrives.</i>
Question 1:	<i>For how long does occupancy remain the same the first time this occurs?</i>
Question 2:	<i>Does the weekend with more or fewer guests at the hotel? Explain how you know.</i>
Graph 3:	
Story	<i>This graph shows the height Ash was at over 30 minutes of parasailing. She rose very high very quickly, then maintained her height for around 15 minutes. She then descended slowly over the next 10 minutes.</i>
Question 1:	<i>Approximately how much longer does it take Ash to descend than to rise?</i>
Question 2:	<i>Why do you think Ash descended more slowly than she rose?</i>