33—Temperature Tale of Two Cities

Temperatures in Boston & Miami

KEY
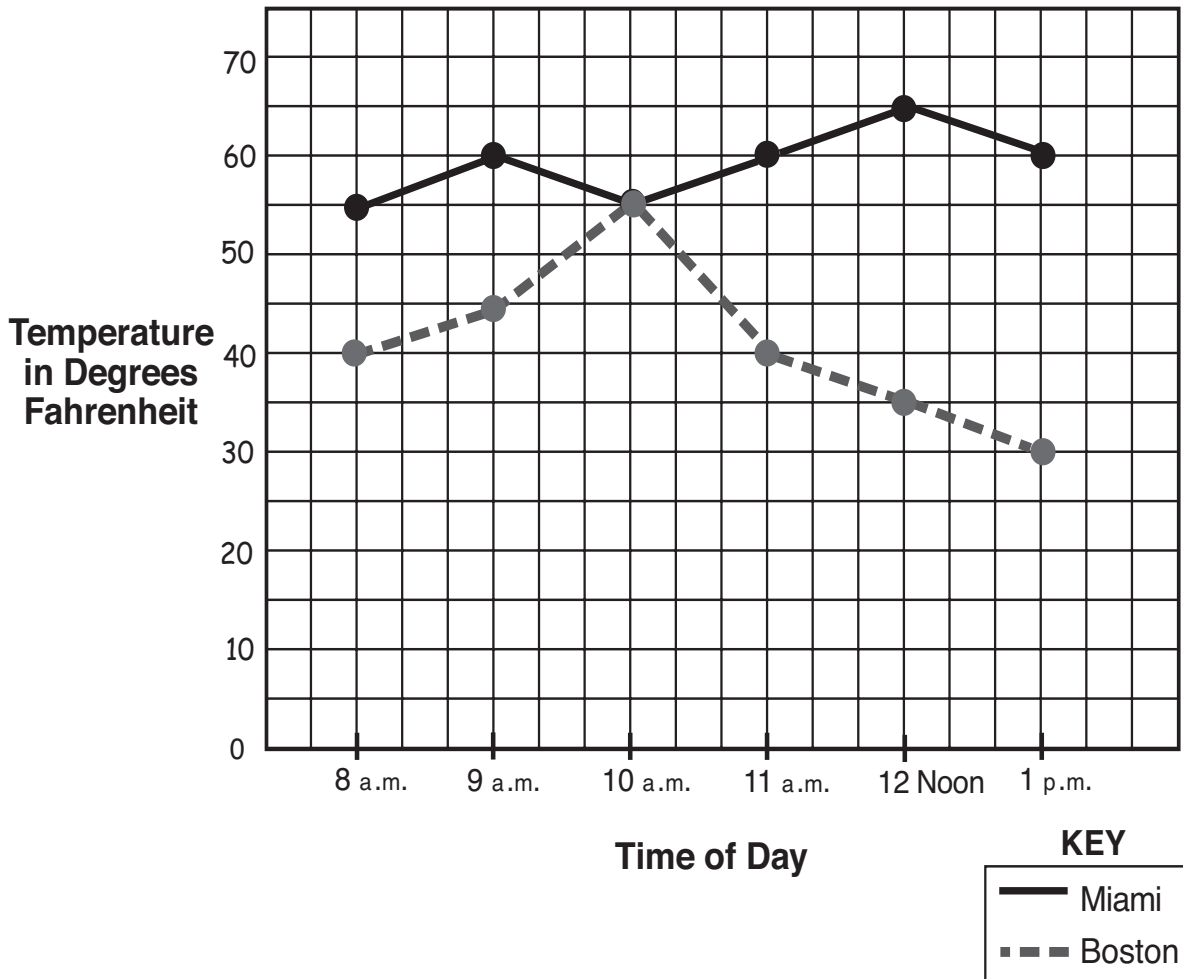
——	Miami
▪▪▪	Boston

Questions

1. Study the graph above and fill out the temperature charts below:

Boston

Time	Temperature
8 a.m.	
9 a.m.	
10 a.m.	
11 a.m.	
12 Noon	
1 p.m.	

Miami

Time	Temperature
8 a.m.	
9 a.m.	
10 a.m.	
11 a.m.	
12 Noon	
1 p.m.	

2. What was the difference in temperature between the two cities at 8 a.m.? _____
Show your work.

3. Which of the two cities showed the bigger rise in temperature from one hour to the next?_____

Use a complete sentence to explain your thinking.

_____

_____

4. At what time of the day did the two cities have the same temperature? _____Use a complete sentence to explain your thinking.

_____

_____

5. During what time of the day was the temperature in both cities going down? Use a complete sentence to write your answer.

_____

6. Find the mean (average) temperature for Miami for the six hours shown on the graph. Round your answer to the nearest whole number. _____ Show your work.

7. Find the mean (average) temperature for Boston for the six hours shown on the graph. Round your answer to the nearest whole number. _____ Show your work.

ANSWERS

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1. <u>Boston</u>   <u>Miami</u>

8 a.m.	40°	8 a.m.	55°
9 a.m.	45°	9 a.m.	60°
10 a.m.	55°	10 a.m.	55°
11 a.m.	40°	11 a.m.	60°
12 Noon	35°	12 Noon	65°
1 p.m.	30°	1 p.m.	60°

2. 15°. 55° – 40° = 15°.

3. Boston. It went up 10° from 9 a.m. to 10 a.m.

4. 10 a.m. They both had the same temperature because the exact same dot on the graph is used to show both.

5. From 12 p.m. (noon) to 1 p.m., the temperature was dropping in both cities.

6. 59°. (55 + 60 + 55 + 60 + 65 + 60) ÷ 6 = 355 ÷ 6 = 59.167.

7. 41°. (40 + 45 + 55 + 40 + 35 + 30) ÷ 6 = 245 ÷ 6 = 40.833.