Temperatures

This problem gives you the chance to:
• understand and interpret statistical graphs and diagrams showing real data

This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) **Same:** the temperatures rise from Jan on and they are highest in July and Aug then they fall.

(ii) **Different:** the temperatures in California rise and fall faster.
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

   Top temperature is 69° √

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

   March, April, May, October, November √

   Explain how you figured it out.

   Temperatures between 68° and 92° √
Temperatures

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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) The temperature is cooler year-round in Washington than the temperature is in California year-round.

(ii) Both states have a high temperature in August over 60 degrees.
2. Which of the four box diagrams shows the Washington temperatures?  
   Explain how you decided.
   I looked at the highest temperature and lowest temperature and found them on the box and whisker plots.

3. Which of the four box diagrams shows the California temperatures?  
   For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?
   March, April, May, June, September, October, and November are all between the upper and lower quartiles.
   Explain how you figured it out.
   I looked at letters D's box and looked at the quartiles then at the graph to figure it out.
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

   (i) They both increase and decrease

   (ii) Washington has a lesser peak than California

   ✓
2. Which of the four box diagrams shows the Washington temperatures? 

   \[ B \checkmark \]

   Explain how you decided.

   It's the lowest

   \[ 0 \]

3. Which of the four box diagrams shows the California temperatures? 

   \[ D \checkmark \]

   For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

   \[ 102^\circ F \]

   Explain how you figured it out.

   It's the highest

   \[ 0 \]
Temperatures

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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) Both temperatures seem to rise significantly around June to August

(ii) It is considerably colder in Washington than in California
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

**B**

Because the whiskers go from 48°F to 69°F, which are the WA temperatures.

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

**D**

April

Explain how you figured it out.

It is about 78°F
Temperatures

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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) **Same:**
    - **coldest Jan**
    - July and **August**

(ii) **Different:** California hotter all **the time**
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

Between 45° and 60°.

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

March to November.

Between quartiles 68° and 92°.
Temperatures

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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) both have a steady increase then decrease

(ii) California had greater temps
2. Which of the four box diagrams shows the Washington temperatures? 
   Explain how you decided.
   - lowest is 45°  
   - highest is 69°  
   B 1

3. Which of the four box diagrams shows the California temperatures?  
   For which months of the year is the maximum monthly temperature for California between  
   the upper and the lower quartiles?
   Mar, Apr, May, Oct, Nov, maybe Sep  
   D 1
   Explain how you figured it out.
   - quartiles are 68 and 92 and looked on graph  
   1
This problem gives you the chance to:
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

   (i) **California** seems to always be at least 10° Fahrenheit above Washington. ✓

   (ii) **Washington** has a slow incline in rising temp. while **California** has a rapid increase in temp. ✓
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

Washington's low is 45°F and high is 69°F.

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

AQR: end center lines close on quarters center is medium

Explain how you figured it out.

Very ends = range, center ends = quarterly

Very center = medium
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.
   
   (i) Both places get warmer in April-August months.

   (ii) The place in California is much warmer than the place in Washington all year round.
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

B  

Shows increase but not a very large one.

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

C  

June and September are the months.

Explain how you figured it out.

The two months show the start of change in California.
Temperatures
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.
   
   (i) Both sets of temperatures increased then decreased.  
   
   (ii) The California temperatures are higher than Washington's temperatures.
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

   Most of the temperatures are between 45 and 70.

3. Which of the four box diagrams shows the California temperatures?

   For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

   January and July

   Explain how you figured it out.

   The temperatures went from 55 to a high of 100 so that means the average is mostly between January and July.
Temperatures

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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

![Graph showing temperature variations over months for Washington and California.]

1. Write two statements about what is the same and what is different in the two sets of temperatures.
   
   (i) The temperatures where taken on the same day at same time.
   
   (ii) One is warmer and gets warm temperature than the other also ranges are different.
2. Which of the four box diagrams shows the Washington temperatures? 
   Explain how you decided. 
   Its low was \[45^\circ\] and high \[69^\circ\] .
   
3. Which of the four box diagrams shows the California temperatures? 
   For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles? 
   September June x 
   
   Explain how you figured it out. 
   I looked at the graphs and figured out the closest temperatures.
Temperatures
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

   (i) The temperature in California changes at a [quicker pace] ✓

   (ii) The temperature change is more gradual in Washington □
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

\[ \text{The lowest is } 45^\circ + \text{ the highest is nearly } 70^\circ \]

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

- February - June \( \times \)
- August - November \( \times \)

Explain how you figured it out.

\[ \text{I looked at the chart} \]
Temperatures

This problem gives you the chance to:
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.
   (i) Both increase and then decrease. ✓
   Both are average temperatures
   (ii) California's temperature raises more sharply. ✓
   Washington maintains its temp better
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

It is more average

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

April-May

Explain how you figured it out.

It is around the overall average
This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.
   
   (i) **They both increase than decrease**  

   (ii) **Washington stays at a steady place**
2. Which of the four box diagrams shows the Washington temperatures? 
   Explain how you decided.
   
   B) They stayed in the 40° - 70° range.

3. Which of the four box diagrams shows the California temperatures? 
   For which months of the year is the maximum monthly temperature for California between the upper and lower quartiles?
   
   C) It's the only box that flows up to 100.

   Summer time.
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This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) Both states' temperatures lows were in January. Both states' temperatures rose over the summer and came back down in the winter.

(ii) Washington's highest temperature was in August. California's highest temperature was in July.
Box and whisker temperature diagrams

2. Which of the four box diagrams shows the Washington temperatures? 
   Explain how you decided.
   
   \[ \text{The lowest temp. was 45 and the highest was 69} \]

3. Which of the four box diagrams shows the California temperatures?
   For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?
   
   \[ \text{Mar. - Sep.} \]

Explain how you figured it out.

\[ \text{The low quartile was about 68 and the upper quartile was about 92} \]
This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.

1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) The temperatures are increasing then decreasing

(ii) Washington's temps are colder than California's temps

[Diagram showing temperature changes over months]
2. Which of the four box diagrams shows the Washington temperatures? Explain how you decided.

   The lowest temp in Wash. in 45 and the hottest was 109. ✓

3. Which of the four box diagrams shows the California temperatures? For which months of the year is the maximum monthly temperature for California between the upper and the lower quartiles?

   July (upper) and Jan. + Dec. (lower) x

   I looked at the graph.