

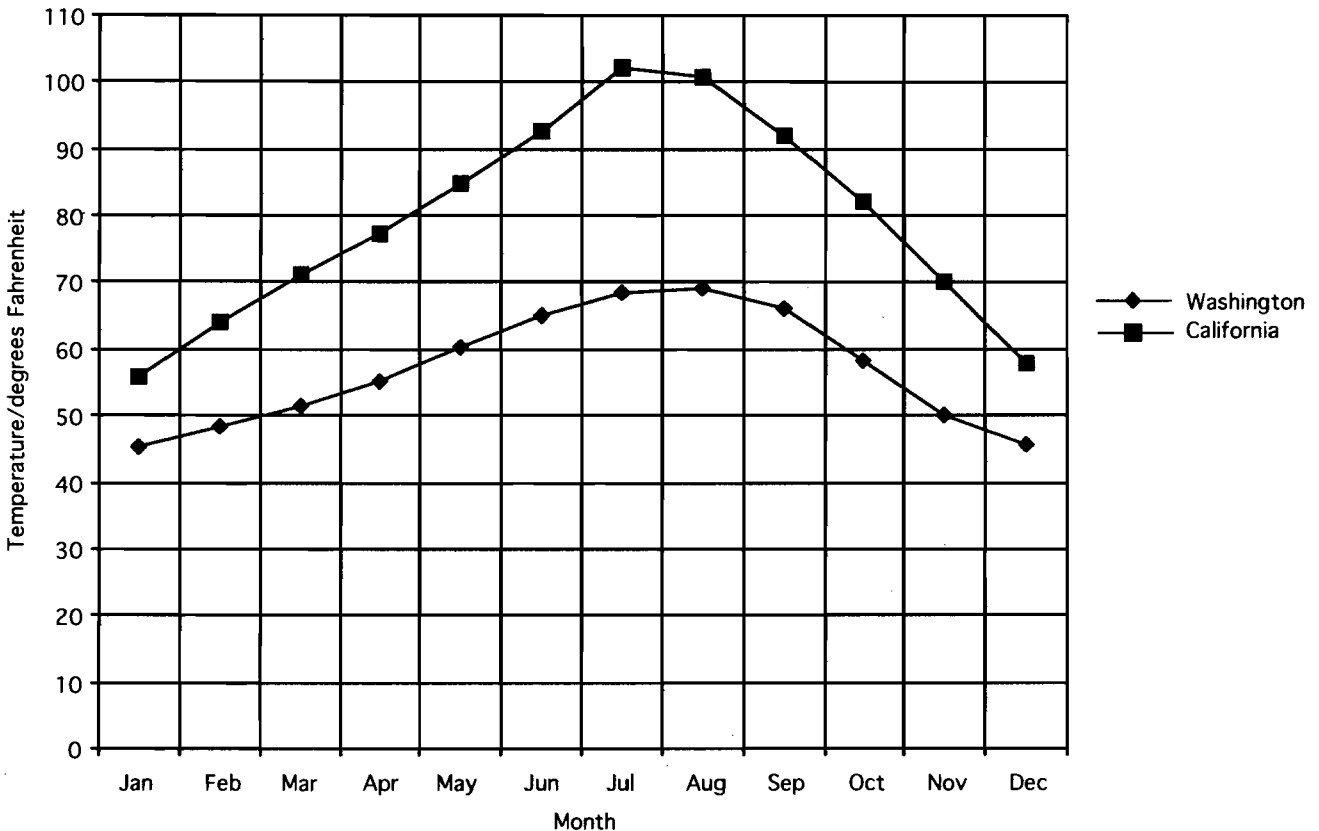
Temperatures

T1

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.

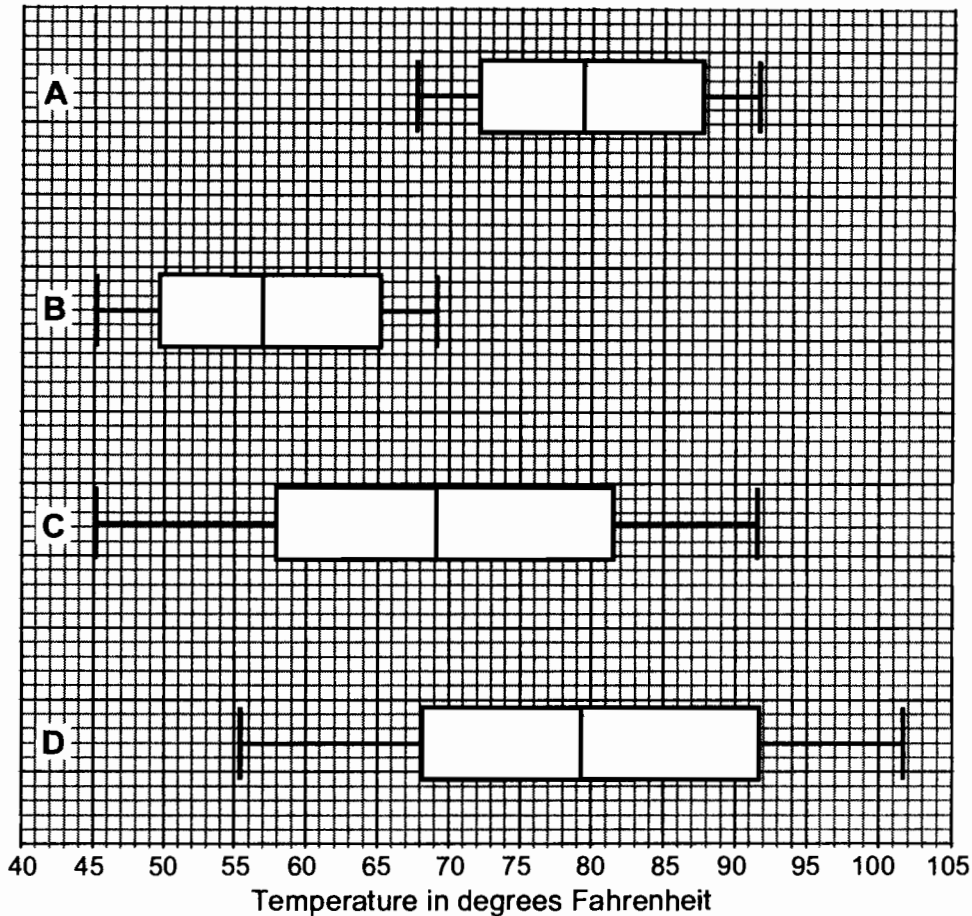


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (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 ✓

Box and whisker temperature diagrams

T1



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

Explain how you decided.

Top temperature is 69° ✓ |

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

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.

They got temperatures between 68° and 92° ✓ |

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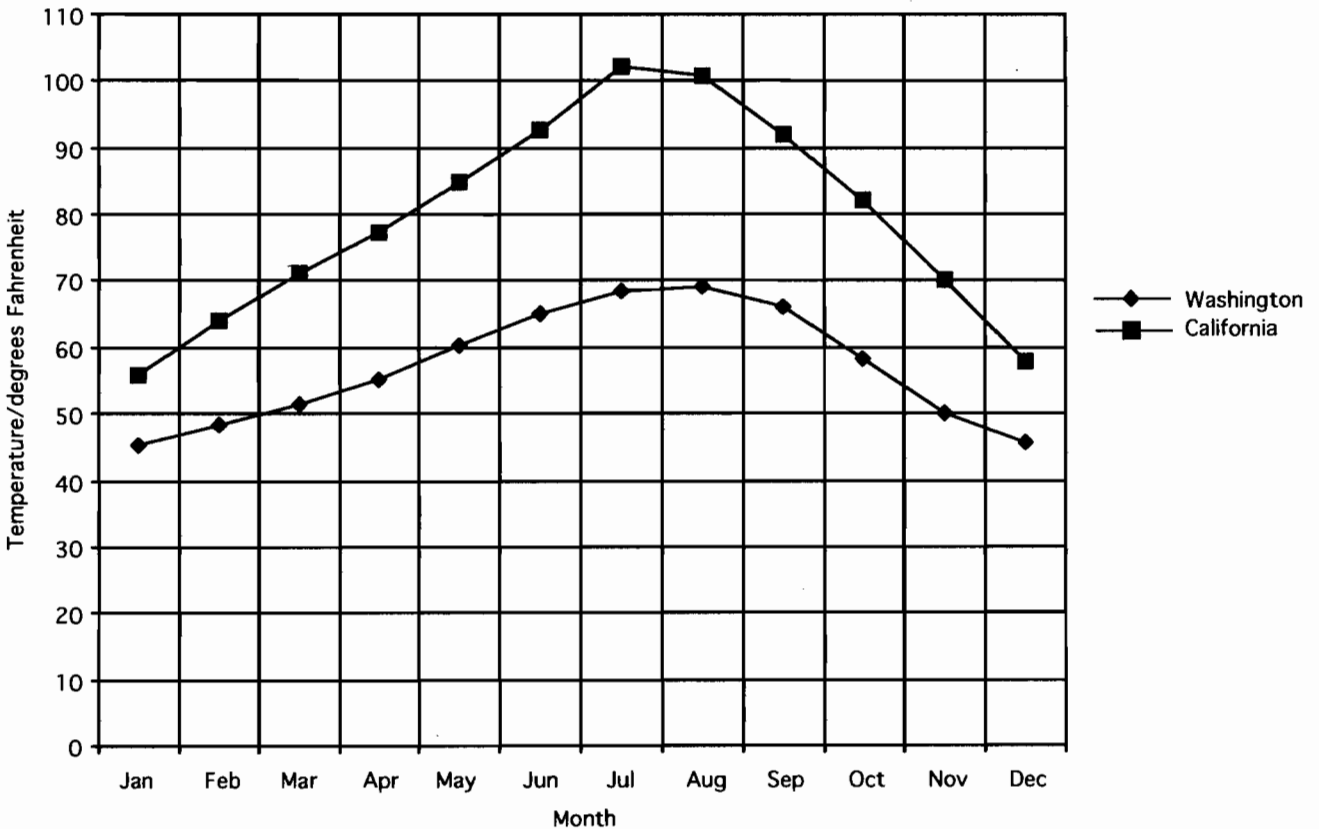
Temperatures

T2

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.

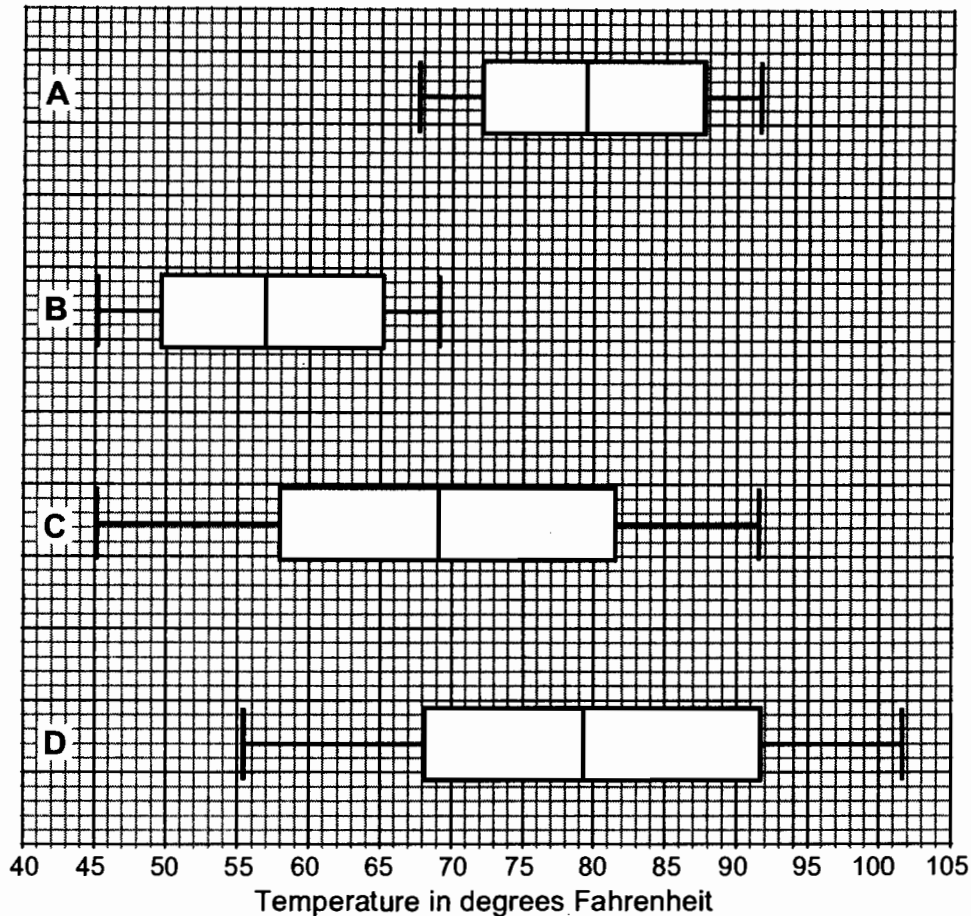


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) 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. ✓

Box and whisker temperature diagrams

T2



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

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? D ✓ |

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 letter D's box and looked at the quartiles then at the graph to figure it out. ✓ |

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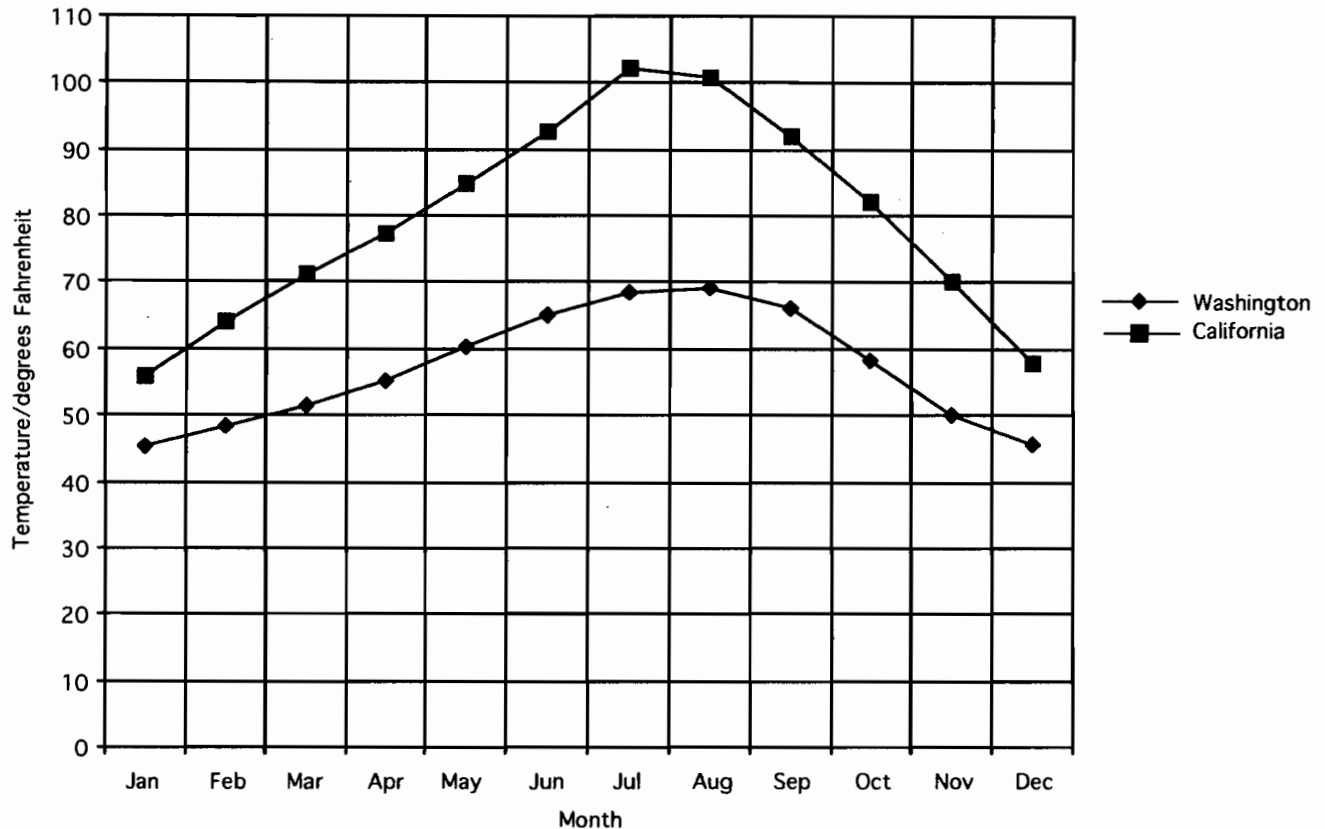
Temperatures

T3

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.



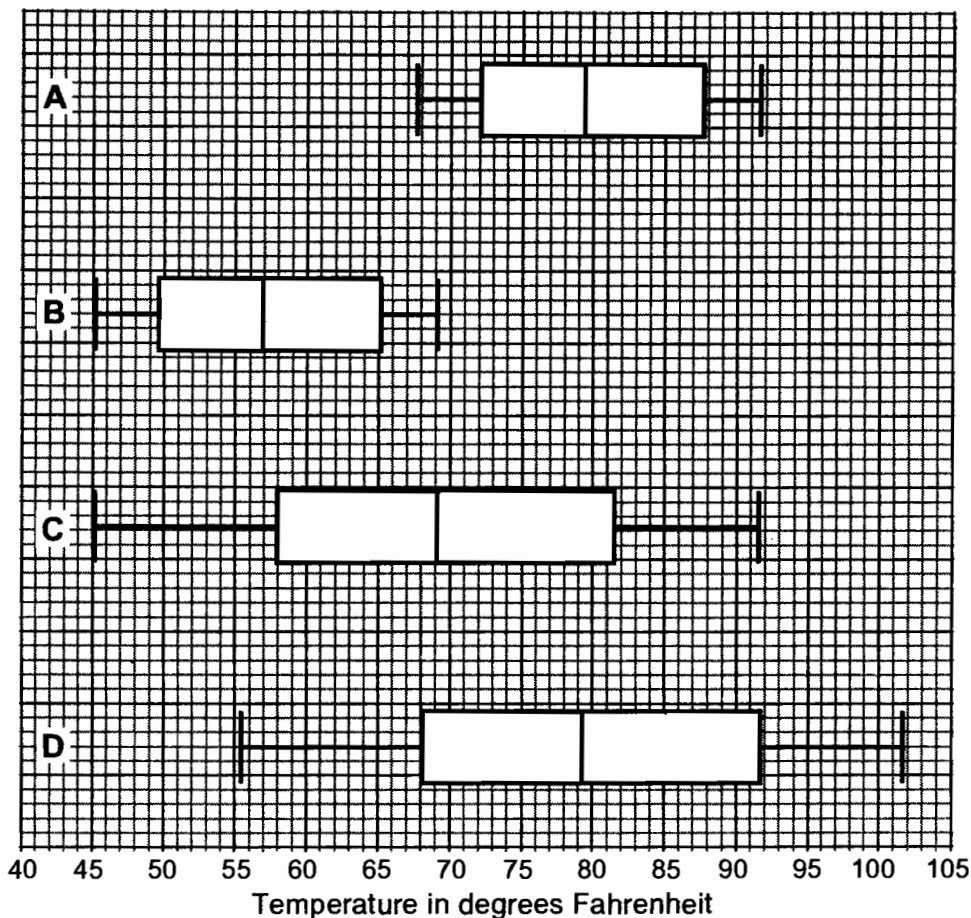
1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) They both increase and decrease ✓

(ii) Washington has a lesser temp than California ✓

Box and whisker temperature diagrams

T3



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

B ✓ 1

Explain how you decided.

its the lowest ^ 0

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

D ✓ 1

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

102°F x 0

Explain how you figured it out.

its the highest x 0

7 (4)

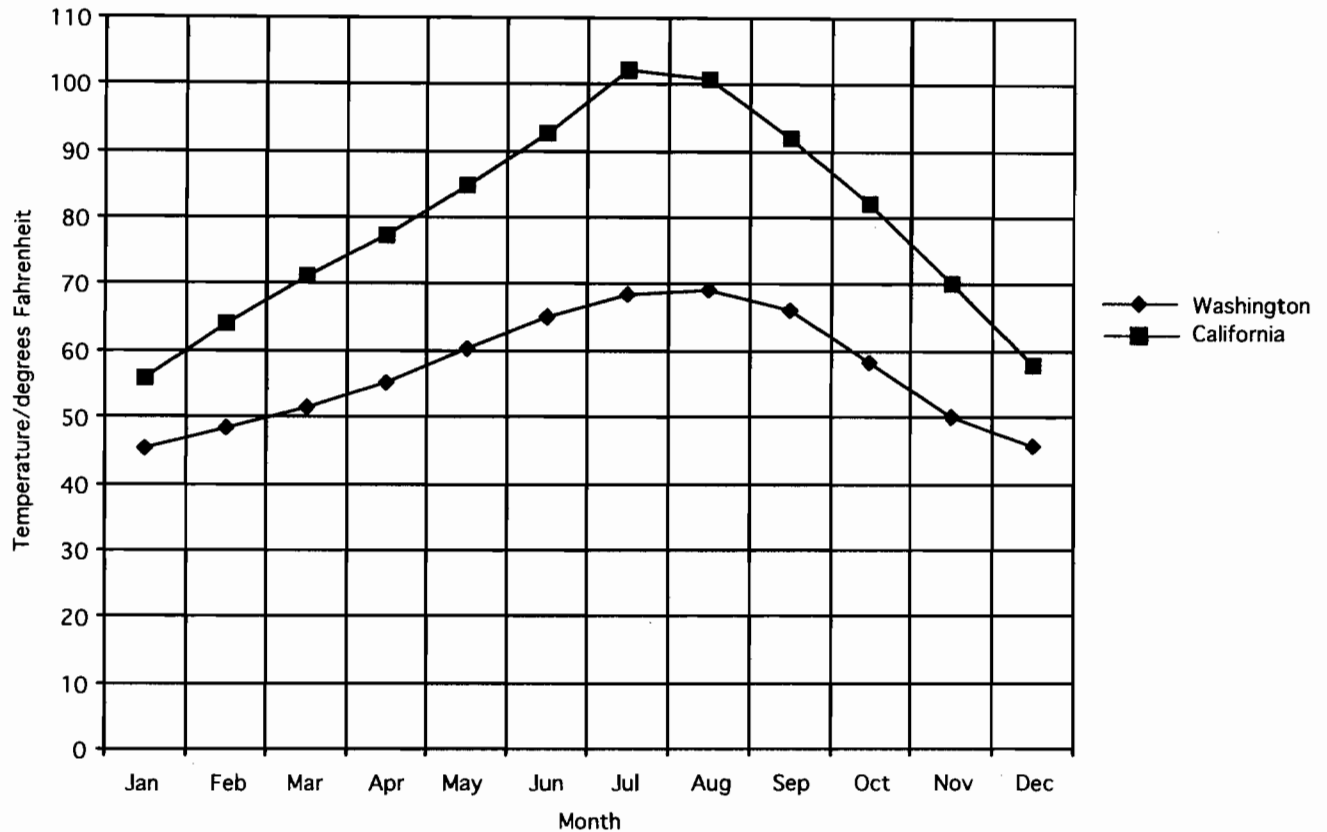
Temperatures

T4

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.

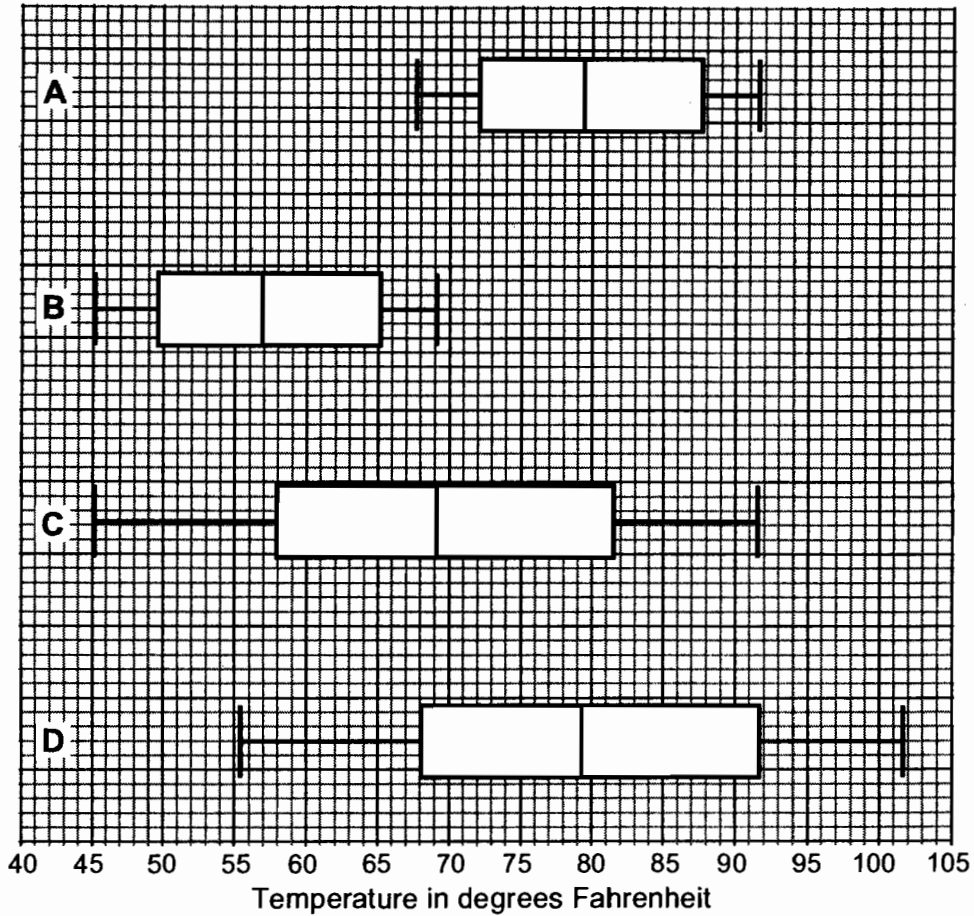


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) Both temperatures seem to rise significantly around June to August ✓
- (ii) It is considerably colder in Washington than in California ✓

Box and whisker temperature diagrams

T4



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

B ✓ 1

Explain how you decided.

Because the whiskers go from 48°F ✓ 1 to 69°F, which are the WA temperatures.

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

D ✓ 1

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

April ^ 0

Explain how you figured it out.

It is about 78°F ^ 0

7 5

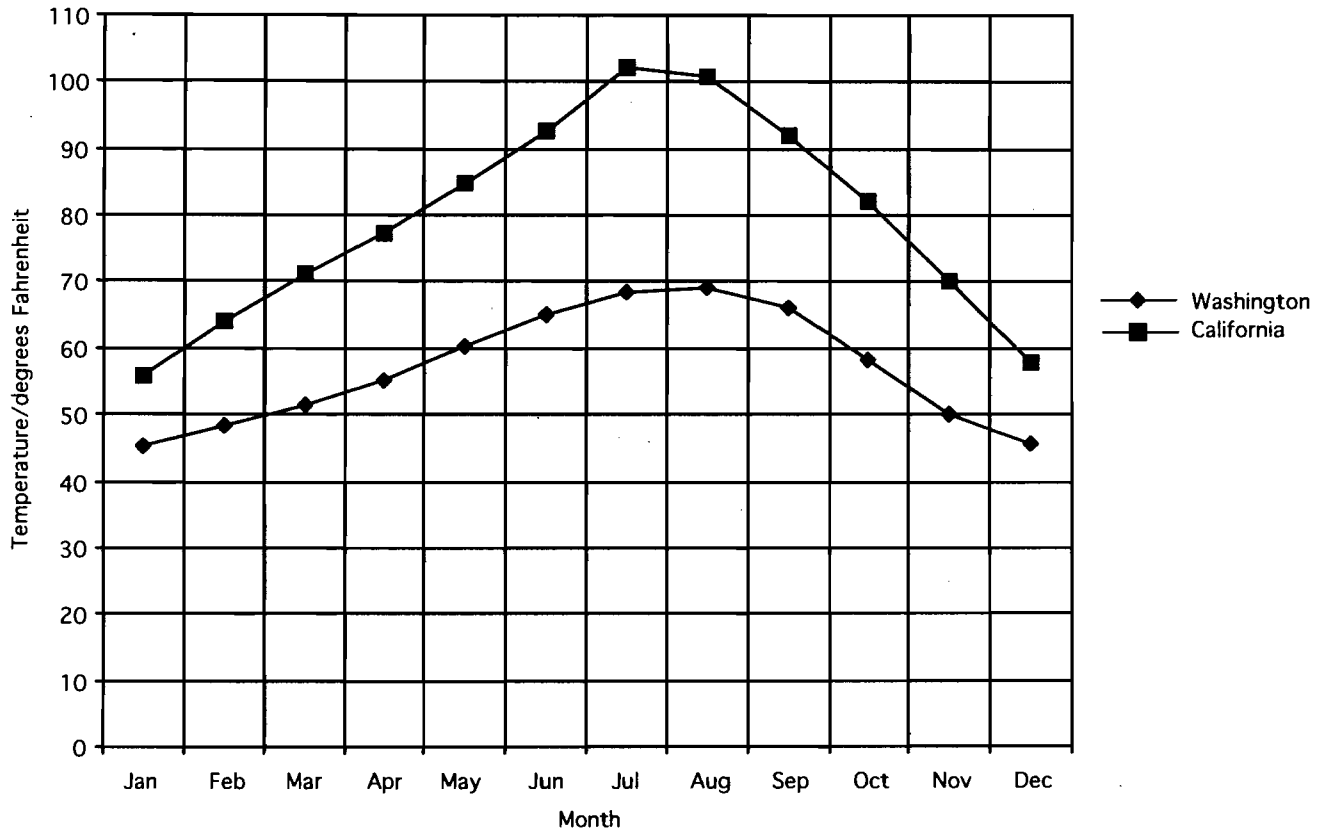
Temperatures

T5

This problem gives you the chance to:

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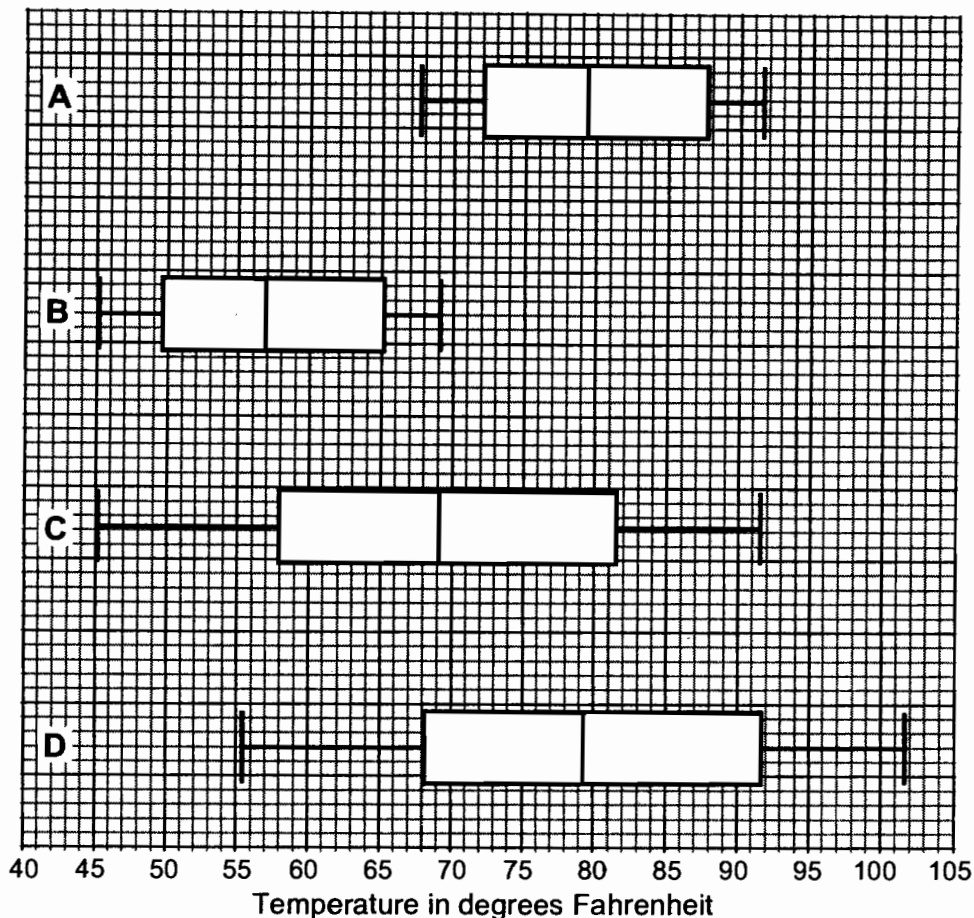


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) same: coldest Jan, hottest July and August ✓
- (ii) different: California hotter all the time ✓

Box and whisker temperature diagrams

T5



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

Explain how you decided.

between 45° and 65° ✓ |

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

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

March to November x | 0

Explain how you figured it out.

between quartiles 68 and 92 ✓ |

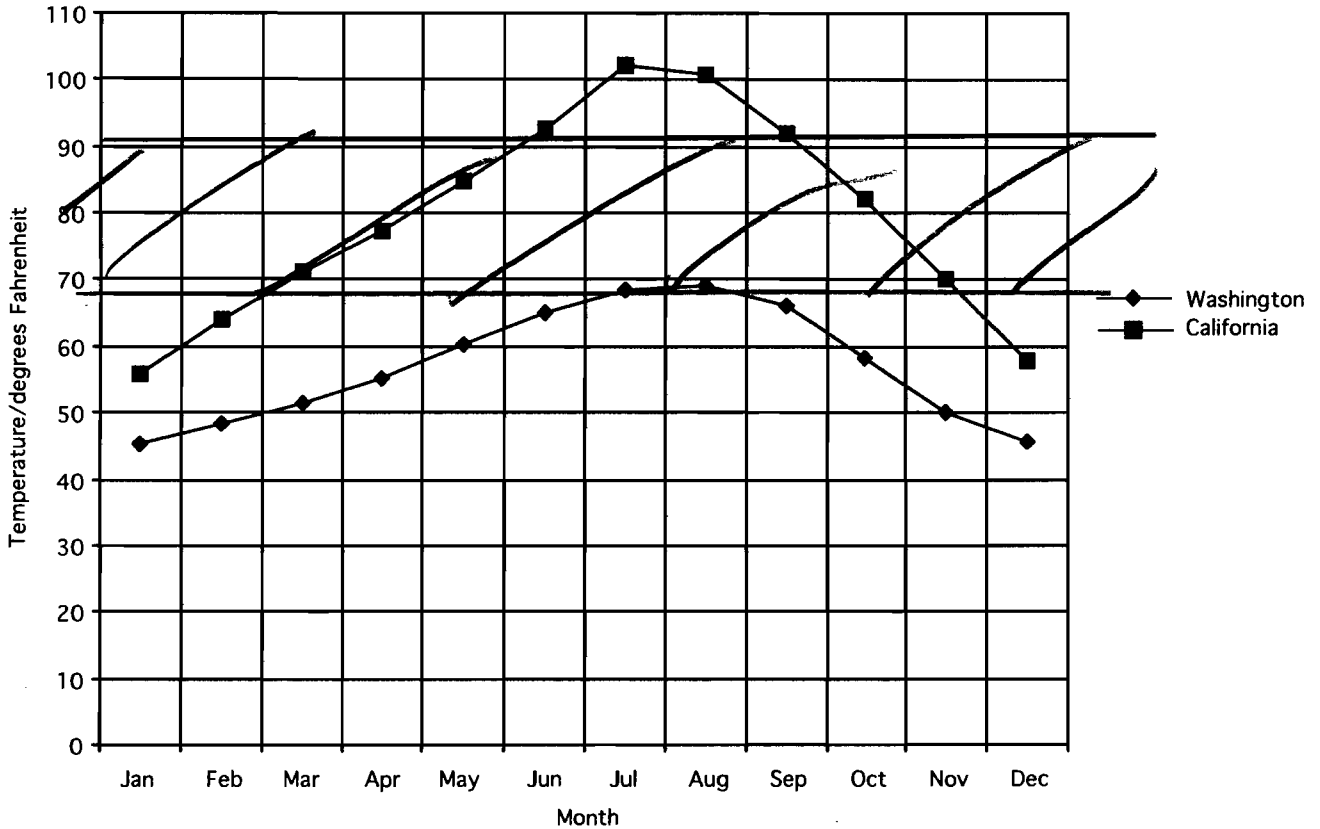
Temperatures

S1

This problem gives you the chance to:

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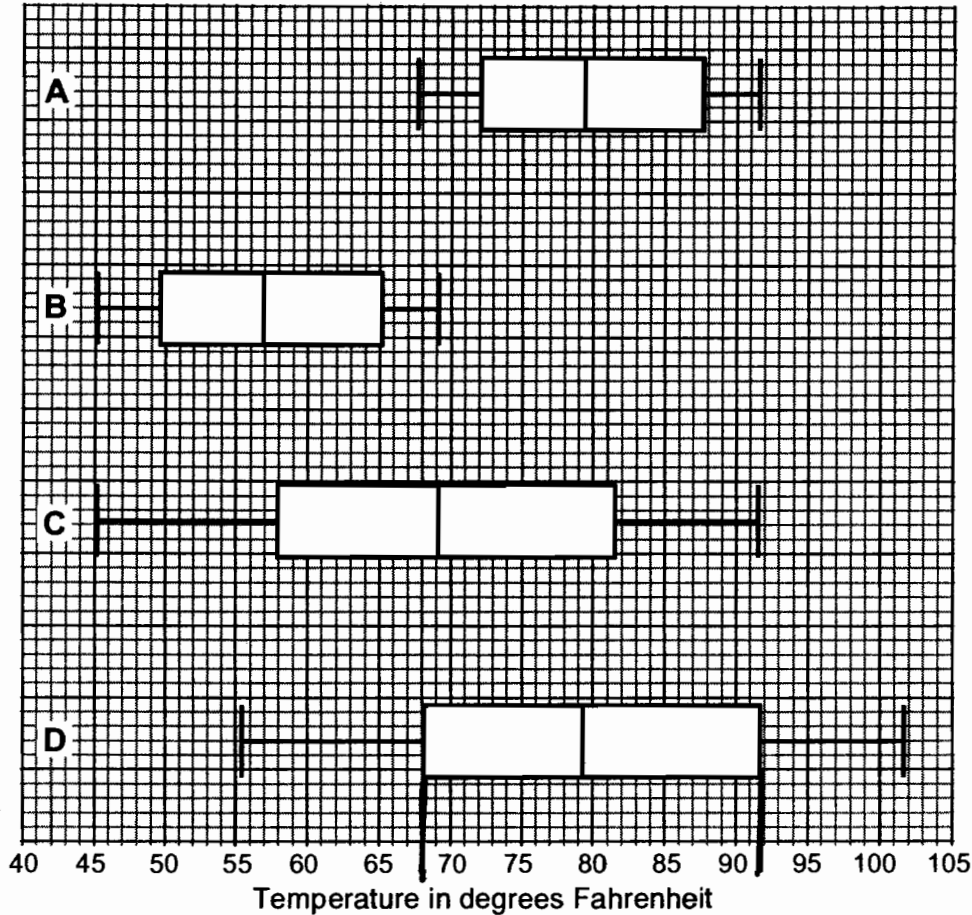
1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) - both have a steady increase then decrease ✓

(ii) - California had greater temps ✓

Box and whisker temperature diagrams

S1



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

Explain how you decided.

- lowest is 45° ✓ |
- highest is 65° ✓ |

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

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 ✓ |

Explain how you figured it out.

- quartiles are 68 and 92 and looked |
on graph ✓ |

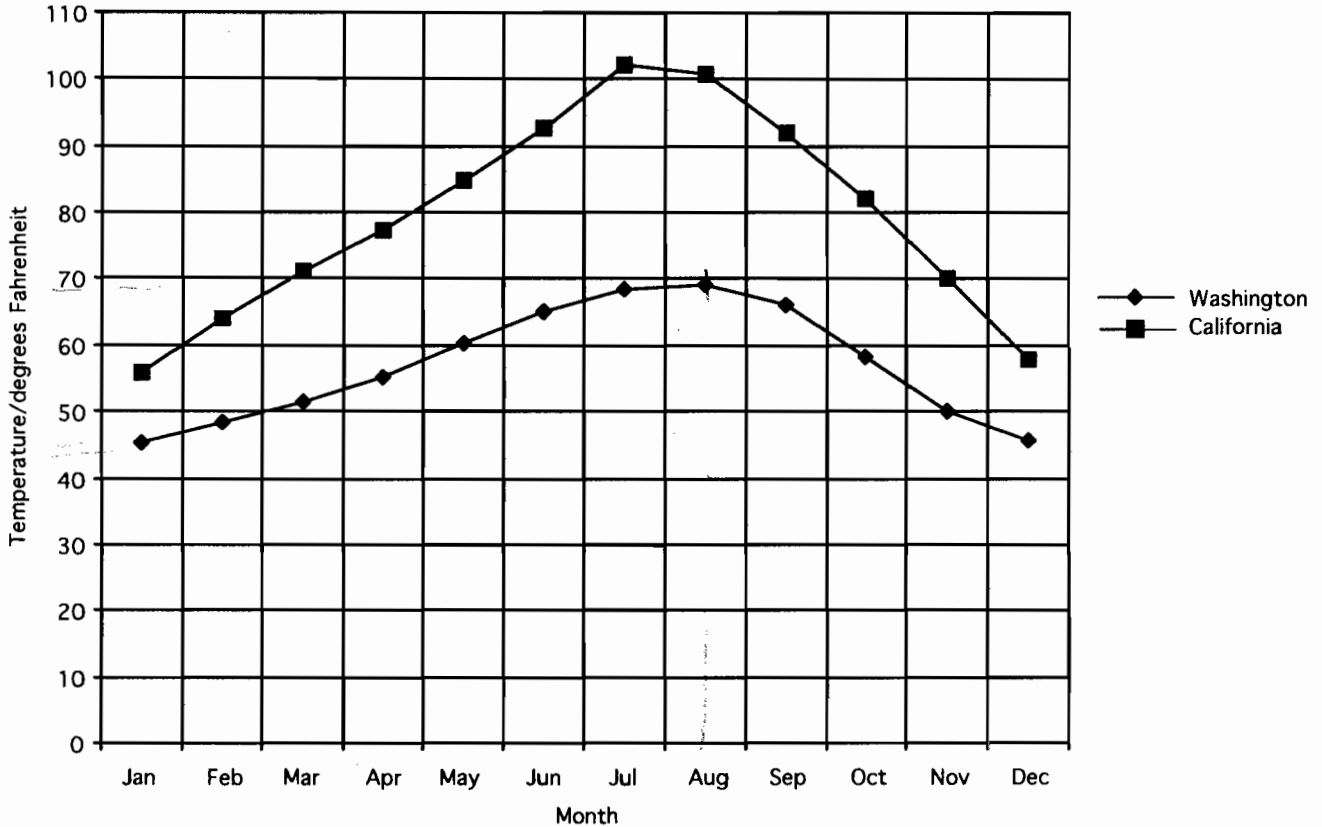
Temperatures

S2

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.

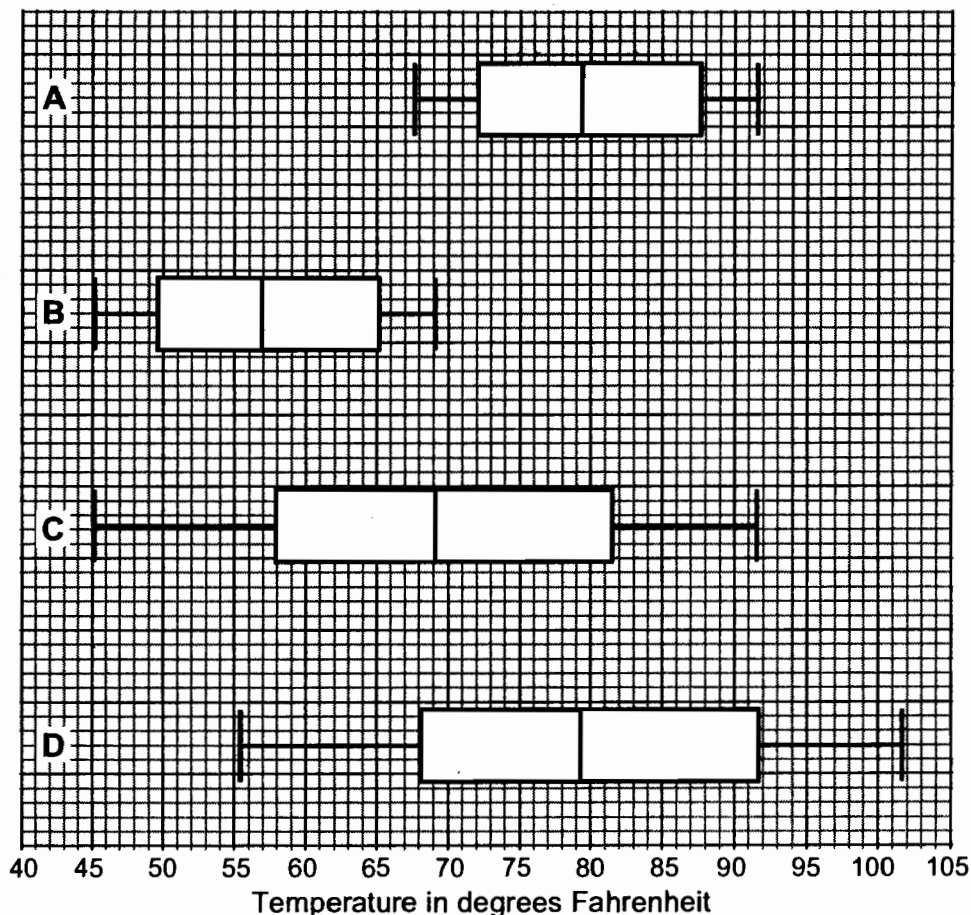


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) California seems to always be at least 10° fahrenheit above washington. ✓ 1
- (ii) Washington has a slow incline in rising temp. while California has a rapid increce in temp ✓ 1

Box and whisker temperature diagrams

S2



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

B ✓ 1

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?

D ✓ 1

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

Apr. center lines use quarterleys 0
center is medium 1

Explain how you figured it out.

very ends = range, center ends = quarterleys 0
very center = medium 1

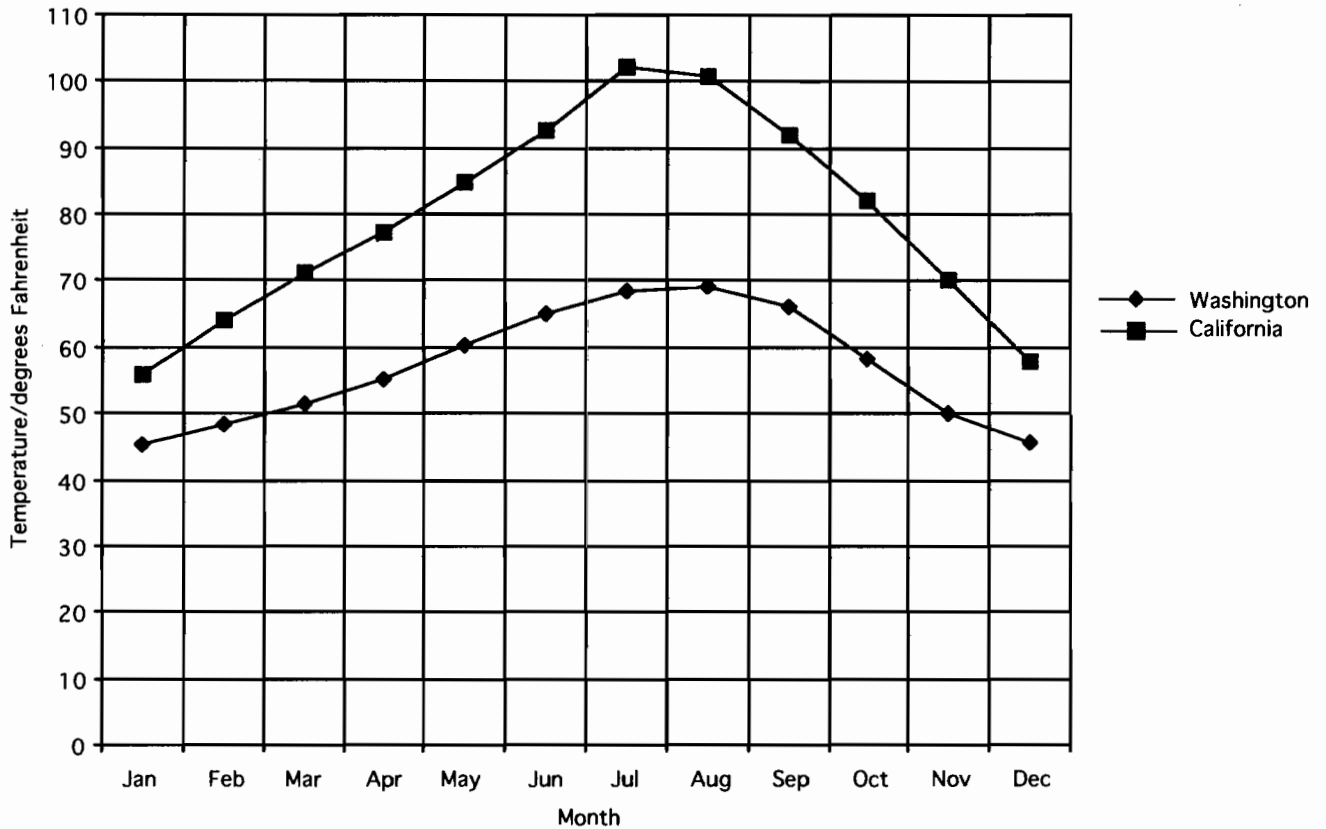
Temperatures

S3

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.

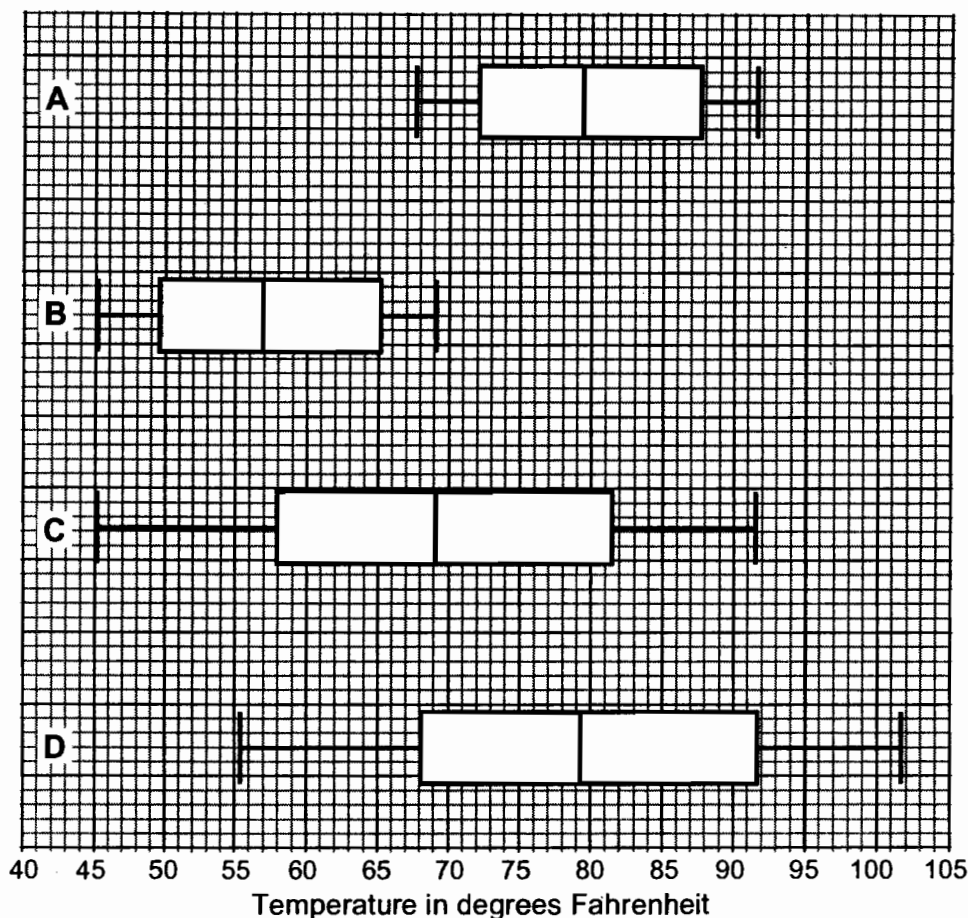


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) Both places get warmer in April-August months. ✓
- (ii) The place in California is much warmer than the place in Washington all year round. ✓

Box and whisker temperature diagrams

S3



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

B ✓ 1

Explain how you decided.

shows increase but not a very large one. 0

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

C × 0

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

June and September are the months. 0

Explain how you figured it out.

The two months show the start of change in California. 0

7 3

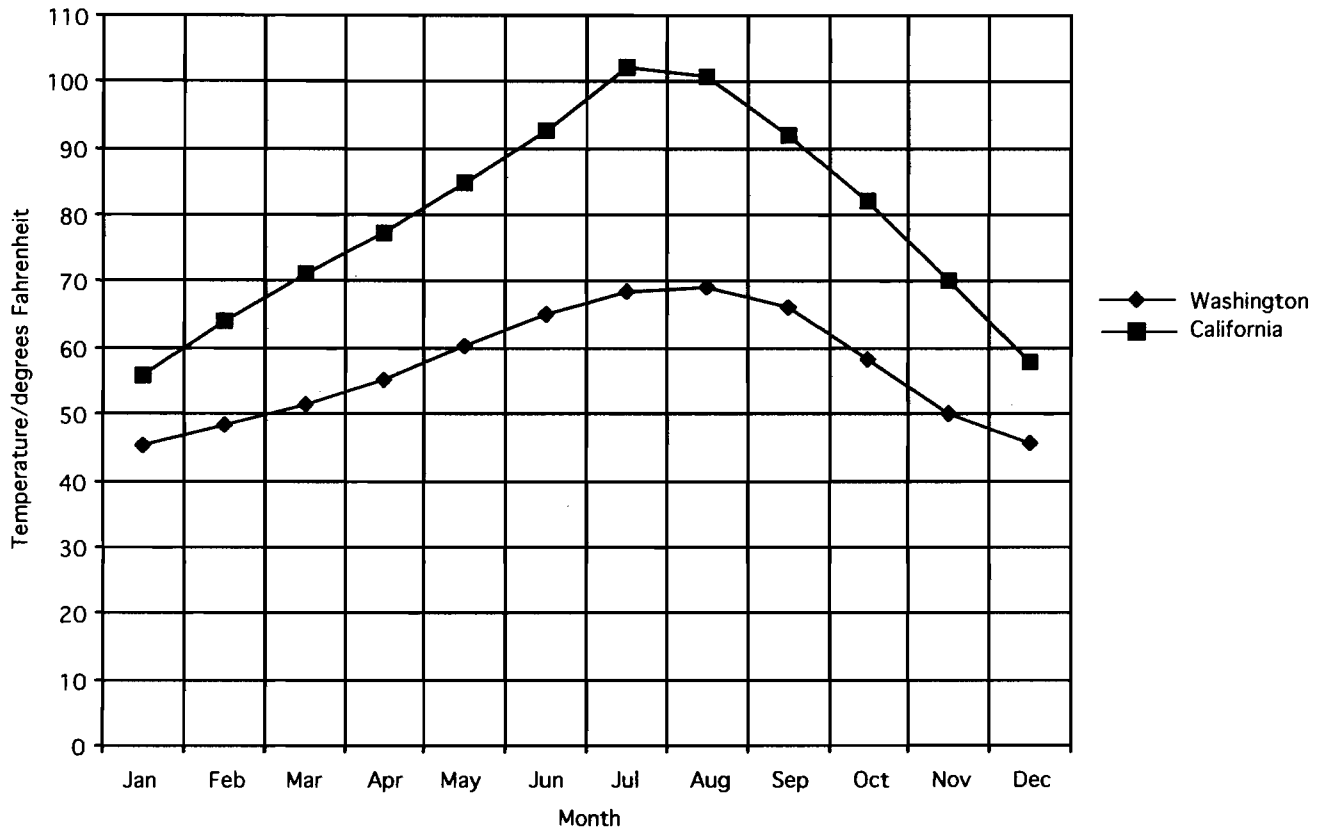
Temperatures

S4

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.



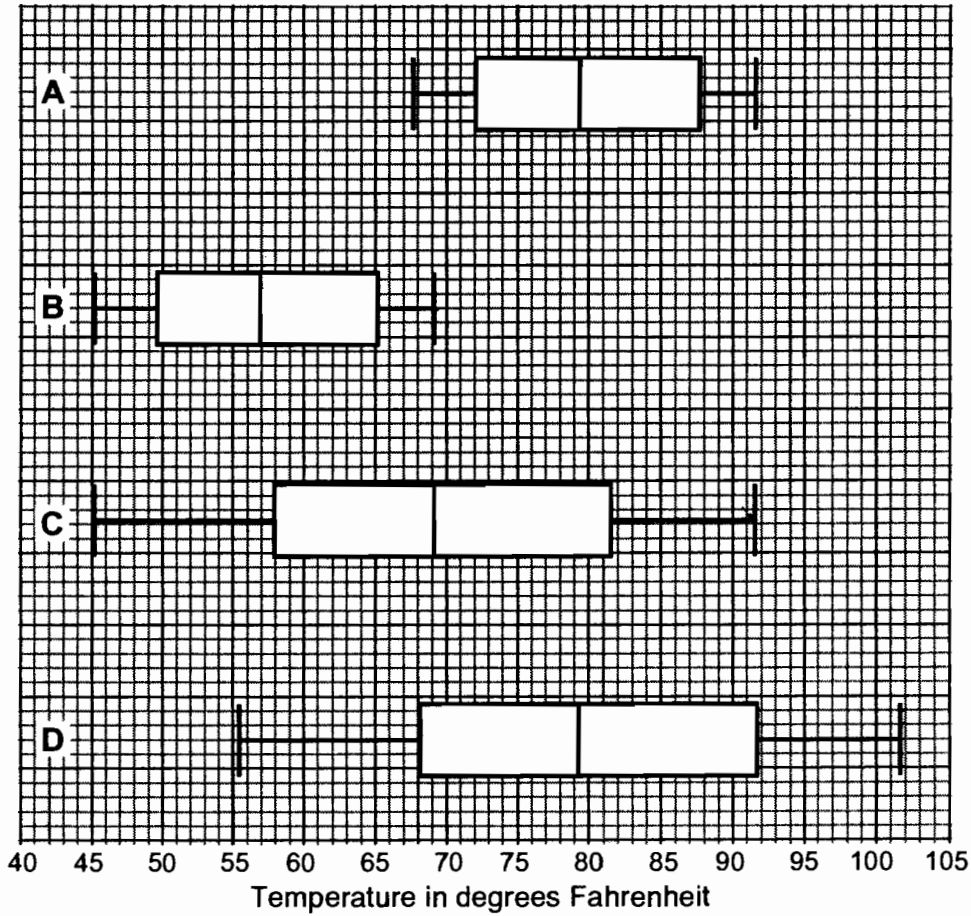
1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) Both sets of temperatures increased then decreased. ✓

(ii) The California temperatures are higher than Washington's temperatures. ✓

Box and whisker temperature diagrams

S4



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

B ✓ 1

Explain how you decided.

Most of the temperatures are between 45 + 70. 1
BOD ✓

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

D ✓ 1

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

January and July x 0

Explain how you figured it out.

The temperatures went from 55 to a high 0
of 100 so that means the average is mostly
between January + July x

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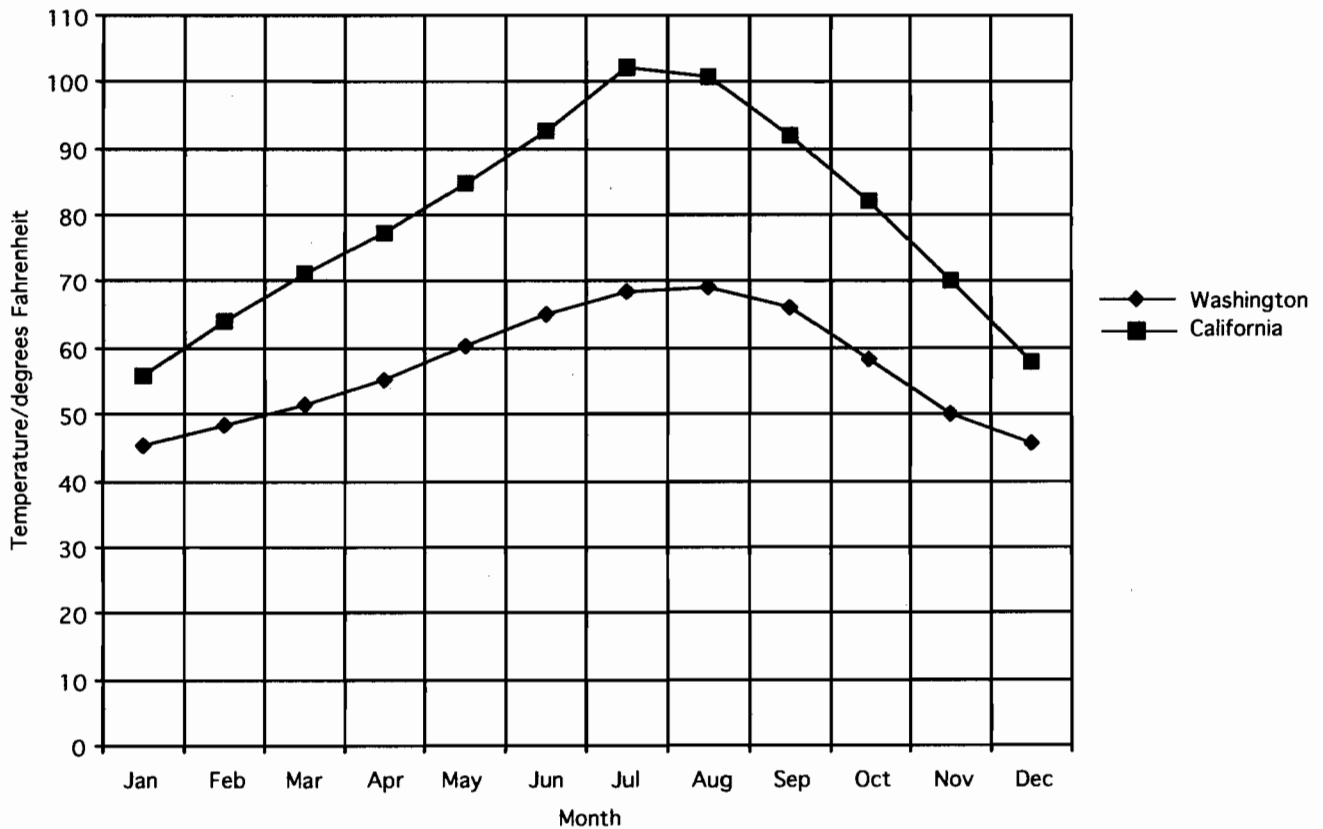
Temperatures

S5

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.

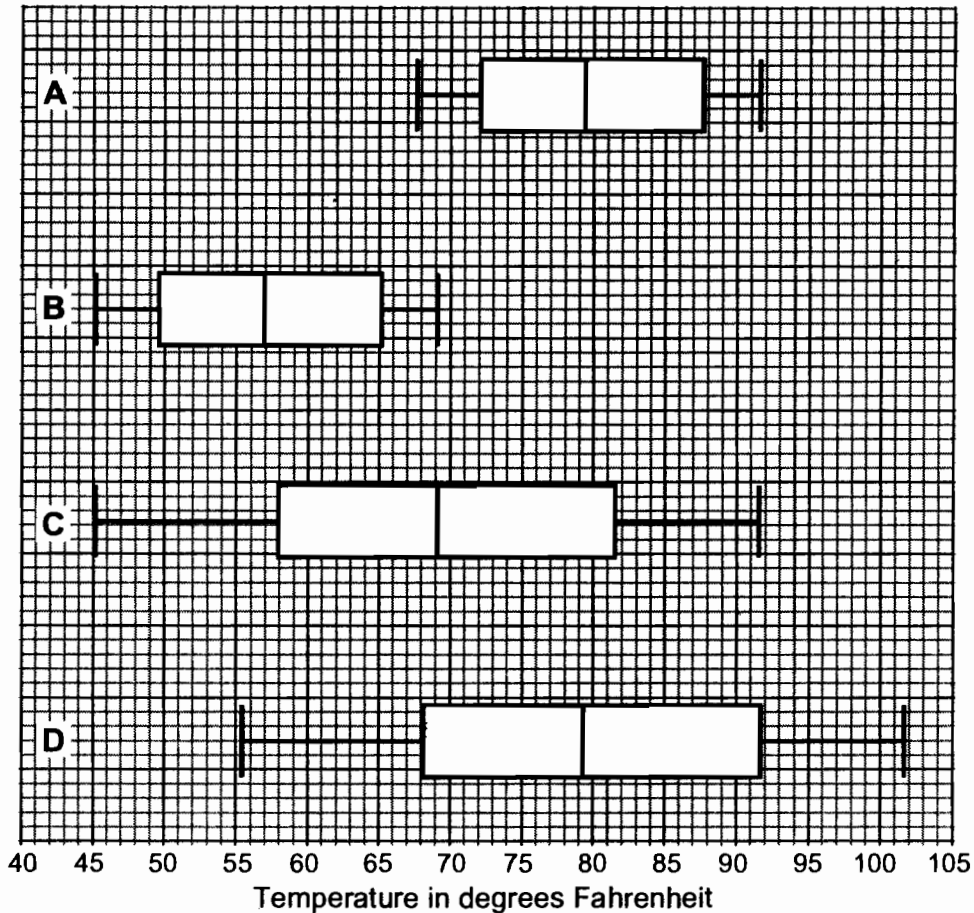


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) The temperatures were taken on the same day at same time. ✓
- (ii) One is warmer and gets warmer temperature than the other also ranges are different. ✓

Box and whisker temperature diagrams

S5



2. Which of the four box diagrams shows the Washington temperatures? B ✓ 1

Explain how you decided.

Its low was 45° and high 69° 1

3. Which of the four box diagrams shows the California temperatures? D ✓ 1

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

September June x 0

Explain how you figured it out.

I looked at the graphs and x 0
figured out the closest temperatures.

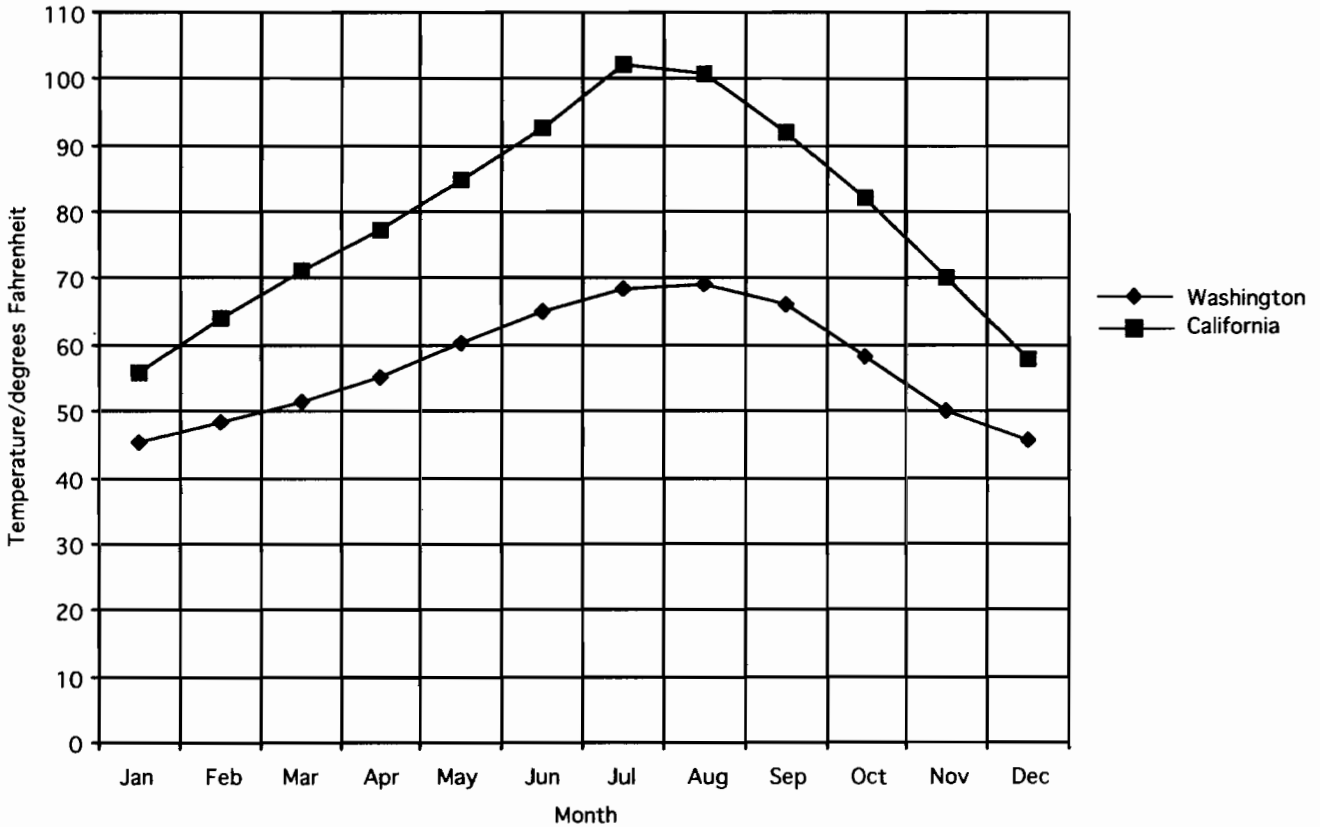
Temperatures

S6

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.

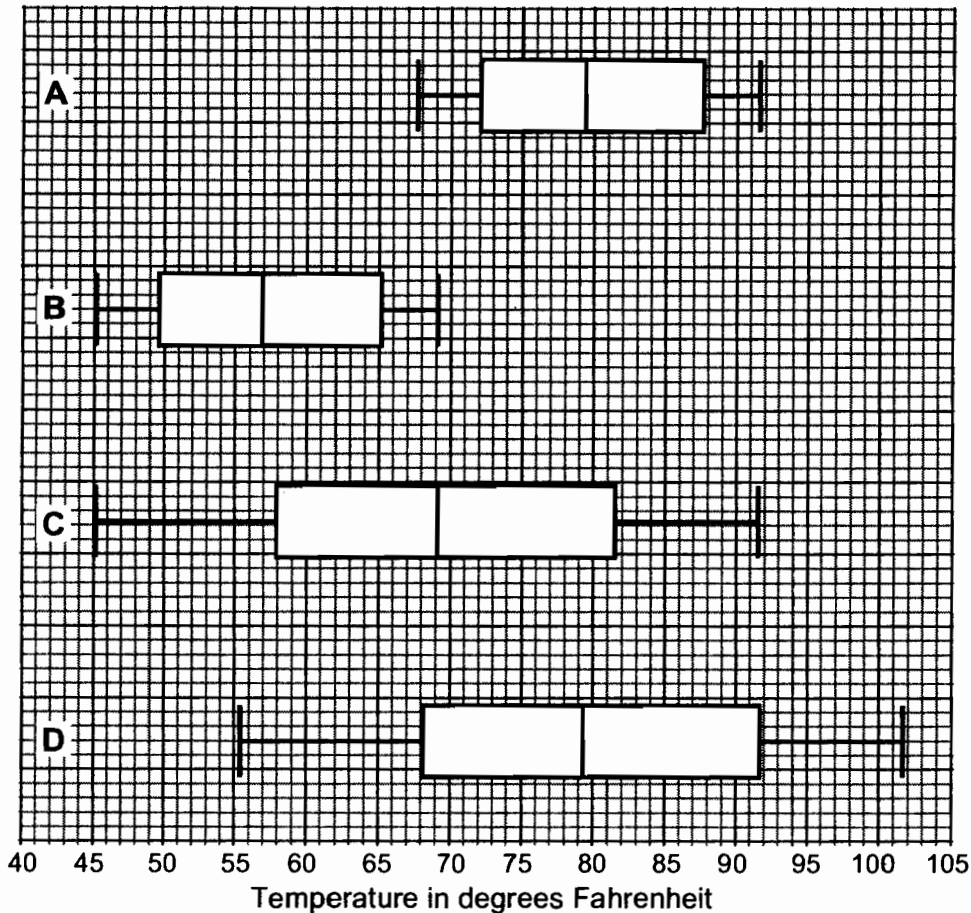


1. Write two statements about what is the same and what is different in the two sets of temperatures.

- (i) The temperature in California changes at a quicker pace ✓ 1
- (ii) The temperature change is more gradual in Washington 0

Box and whisker temperature diagrams

S6



2. Which of the four box diagrams shows the Washington temperatures? B ✓ 1

Explain how you decided.

The lowest is 45° + the highest is nearly 70° ✓ 1

3. Which of the four box diagrams shows the California temperatures? D ✓ 1

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

February - June x 0
August - November x

Explain how you figured it out.

I looked at the chart x 0

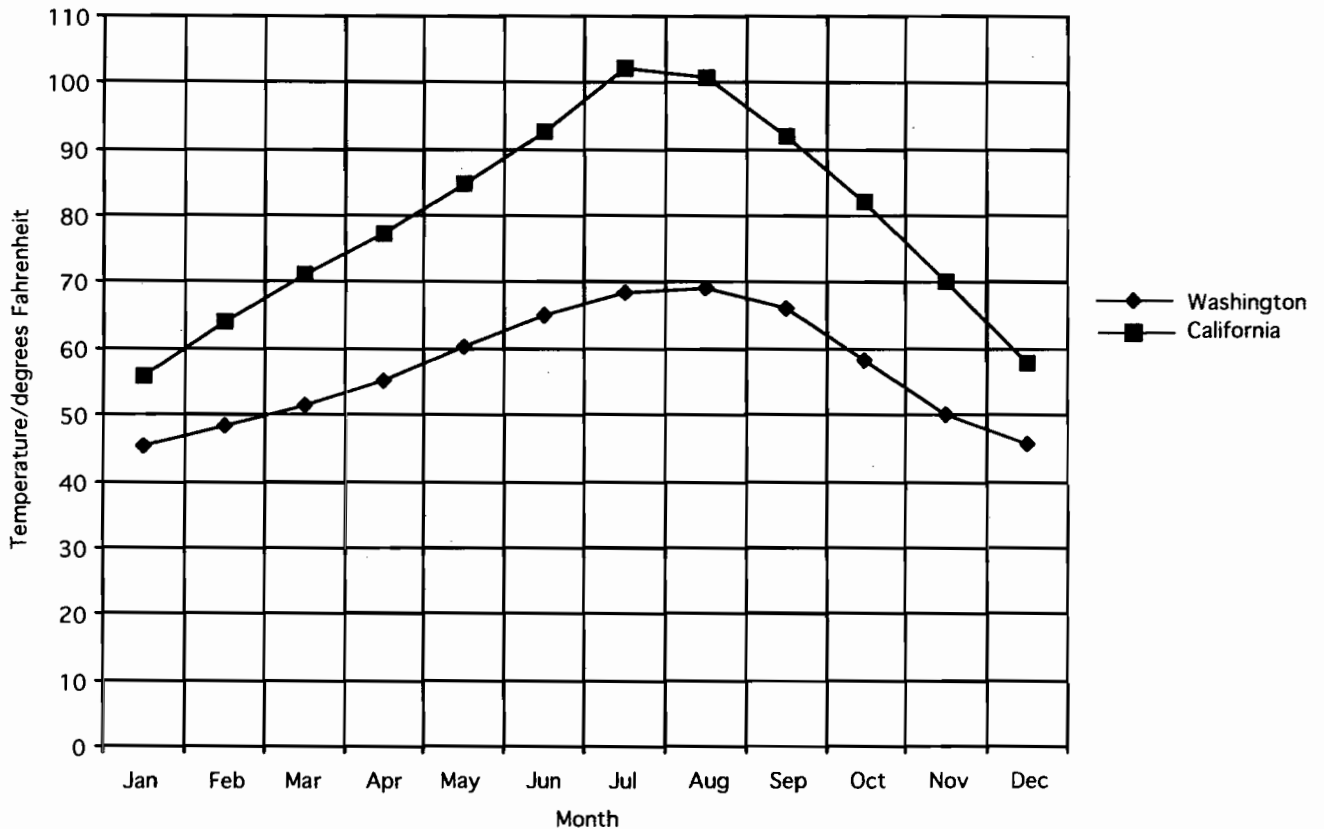
Temperatures

S7

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.



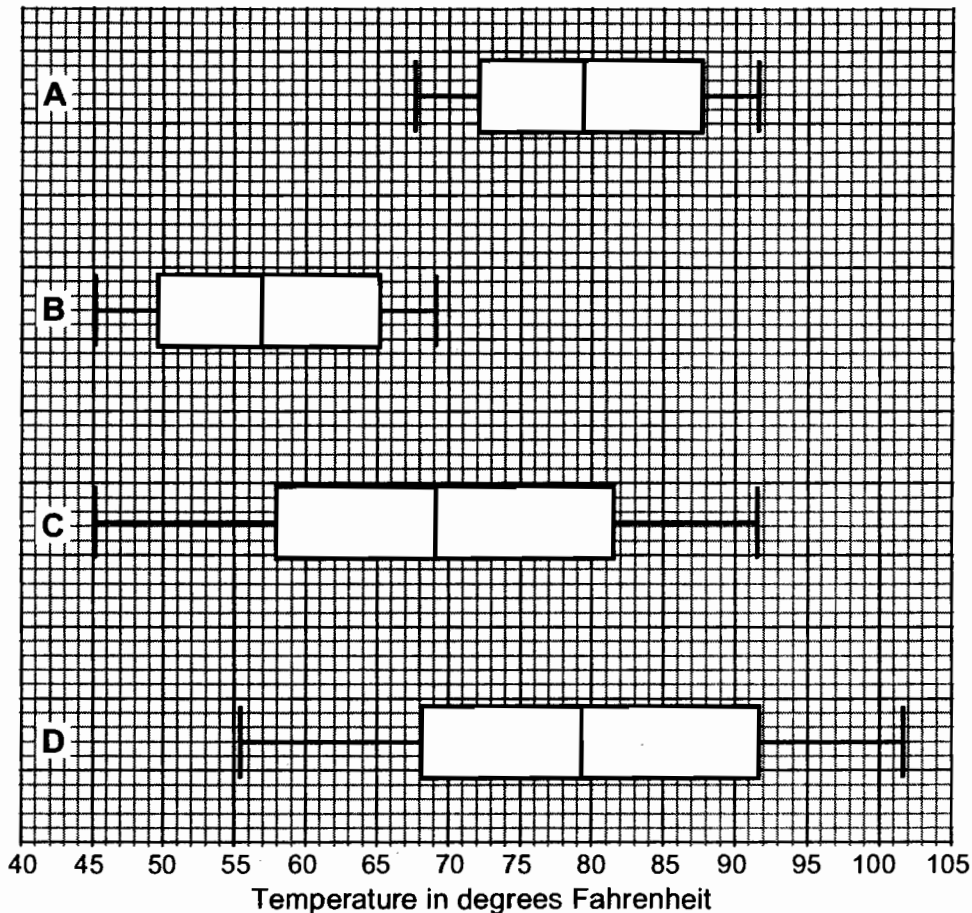
1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) Both increase and then decrease. ✓
Both are average temperatures

(ii) California's temperature raises more sharply. ✓
Washington maintains its temp. better

Box and whisker temperature diagrams

S7



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

B ✓ 1

Explain how you decided.

It is more average ^ 0

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

C x 0

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

April-May ^ 0

Explain how you figured it out.

It is around the overall average x 0

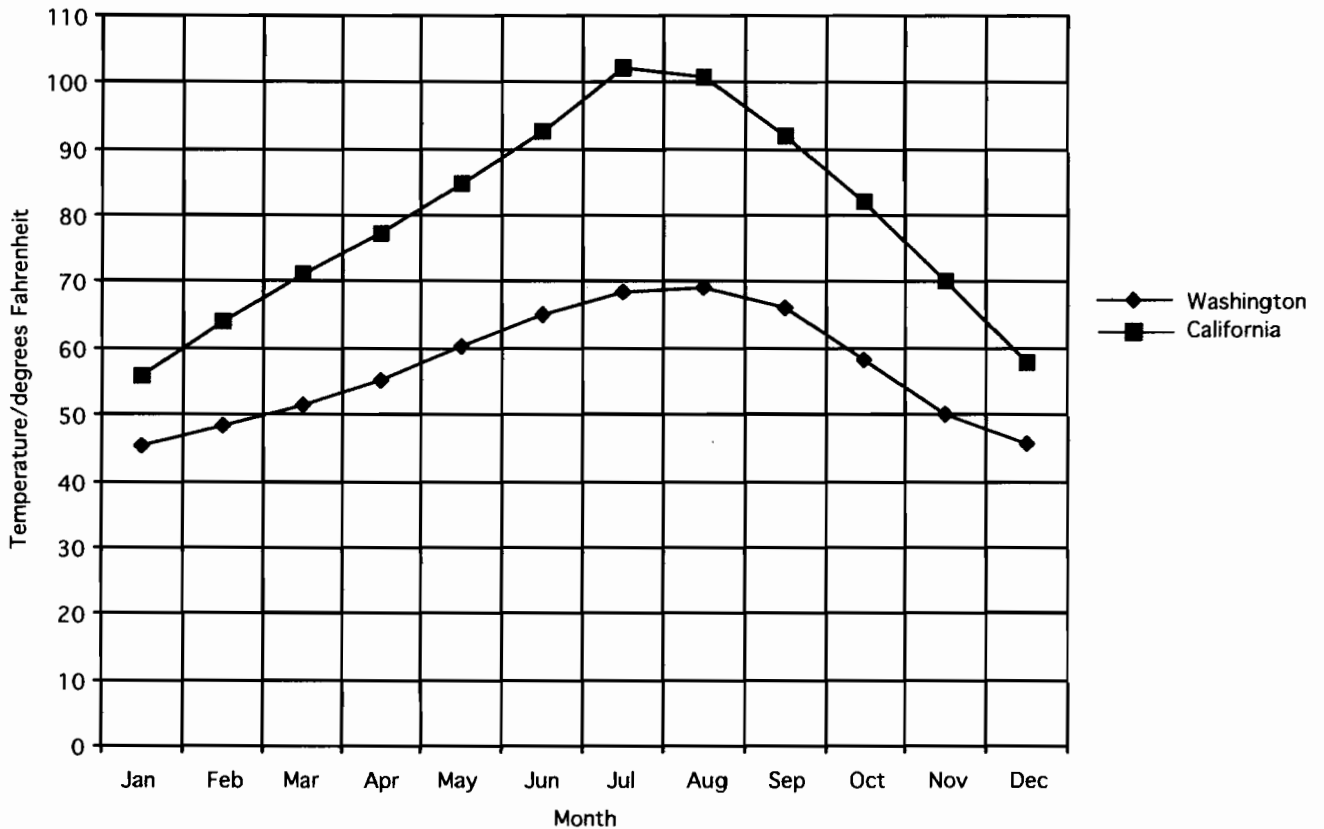
Temperatures

S8

This problem gives you the chance to:

- understand and interpret statistical graphs and diagrams showing real data

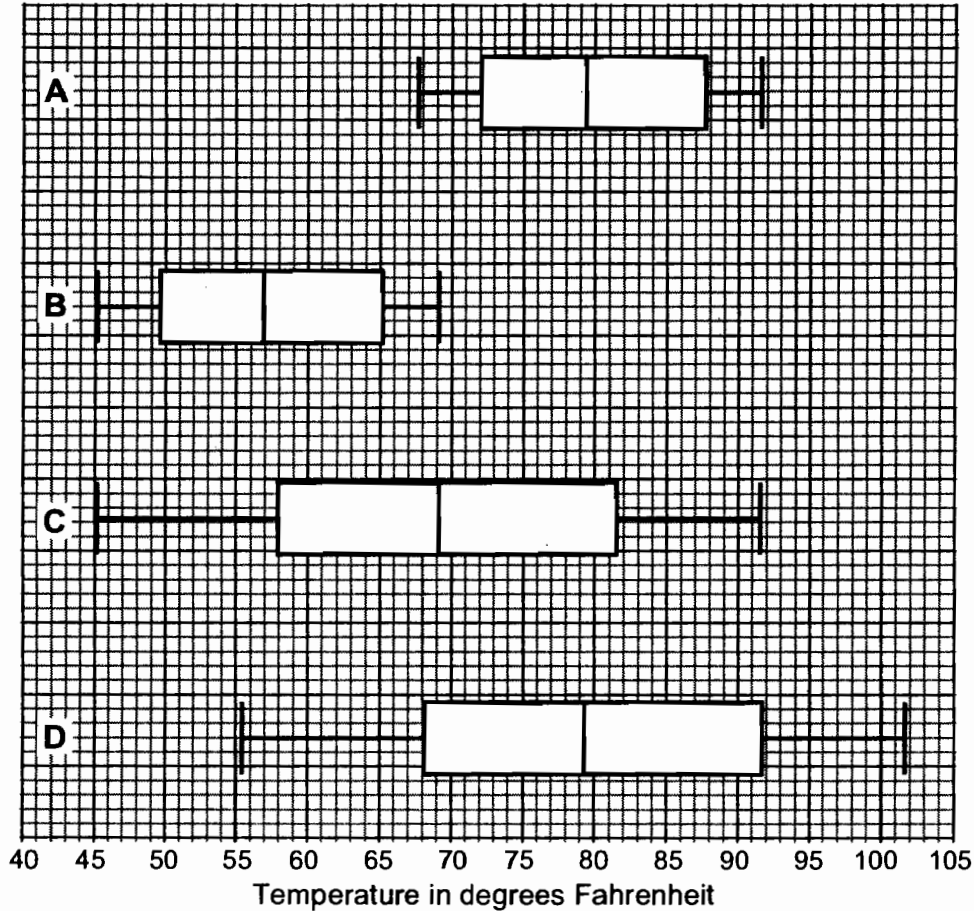
This graph shows the highest average temperatures for each month of the year for one place in Washington and one place in California.



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

(i) they both increase than decrease ✓ 1

(ii) Washington stays at a steady place ✗ 0



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

B ✓ 1
 Explain how you decided.
 B/c they stayed in the 40^{°s} 70^{°s} ^{BoD}

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

D ✓ 1

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

B/c it's the only Box that flows up to 100 x 0

Explain how you figured it out.

A 0
 Summer time x

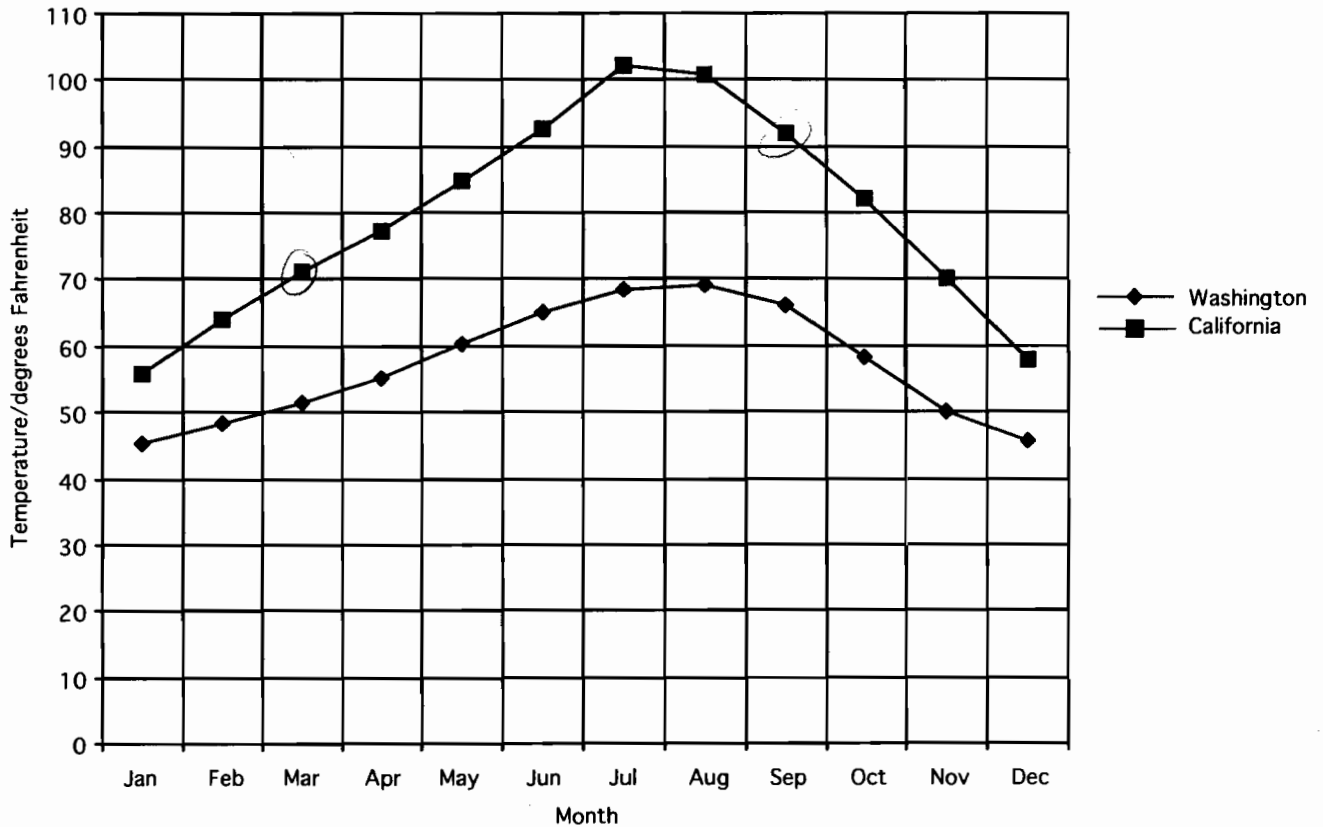
Temperatures

S9

This problem gives you the chance to:

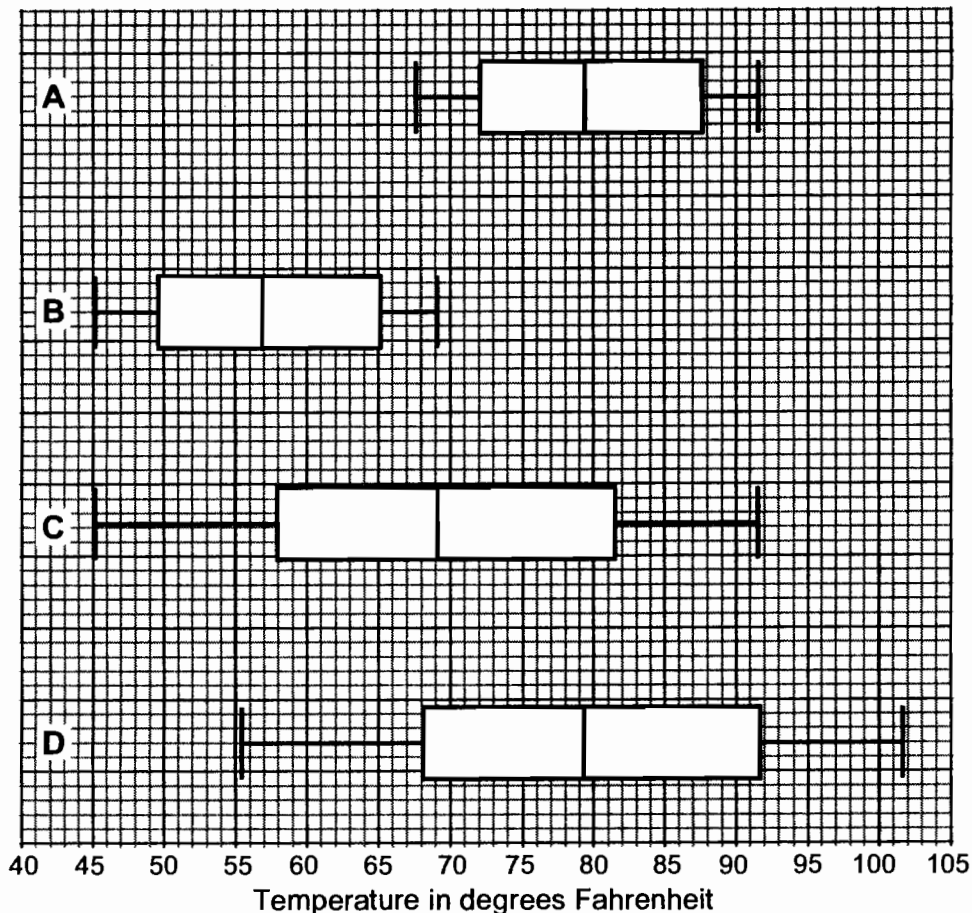
- understand and interpret statistical graphs and diagrams showing real data

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) 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 Aug. California's highest temperature was in July.



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

B ✓ 1

Explain how you decided.

The lowest temp. was 45 and the highest was 69 ✓

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

D ✓ 1

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

Mar. - Sep. ✗ 0

Explain how you figured it out.

The low quartile was about 68 and the upper quartile was about 92 ✓

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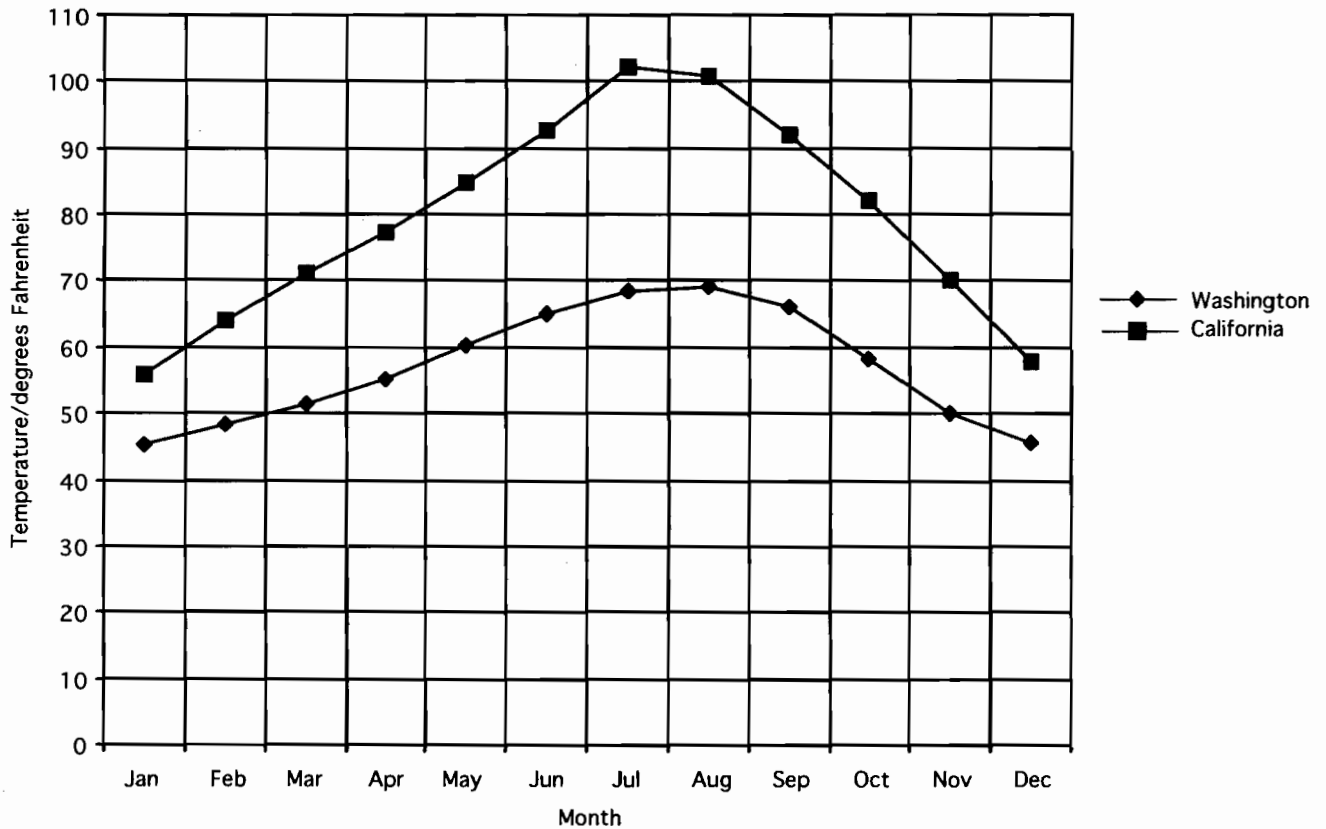
Temperatures

S10

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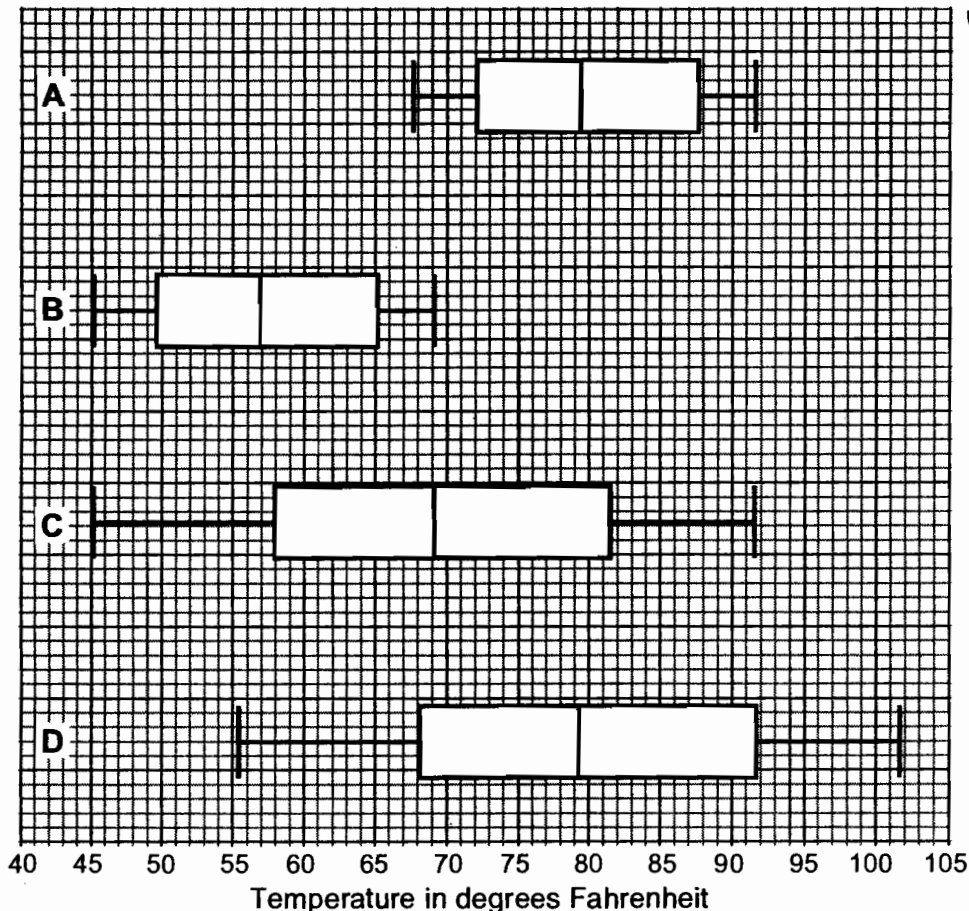
1. Write two statements about what is the same and what is different in the two sets of temperatures.

(i) The temperatures are increasing & then decreasing ✓ 1

(ii) Washington's temps. are colder than Calif's temps. ✓ 1

Box and whisker temperature diagrams

S10



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

B ✓ 1

Explain how you decided.

The lowest temp in Wash. is ≈ 45 & the hottest was 69. ✓ 1

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

D ✓ 1

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 0

Explain how you figured it out.

I looked @ the graph. ^ 0