

Name: Arissa

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey.

All data is in degrees Fahrenheit.

Minimum: 30

Maximum: 74

Median: 61

Q1: 53

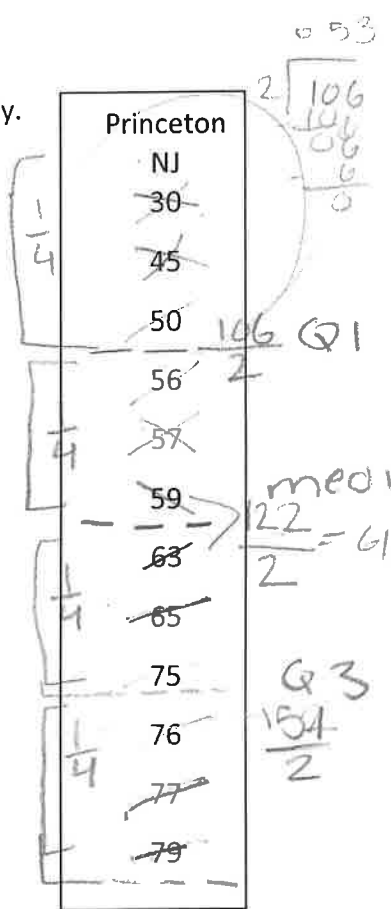
Q3: 75.5

IQR: 32.5

Handwritten calculations:  

$$\begin{array}{r} 75.5 \\ - 53.0 \\ \hline 32.5 \end{array}$$

$$\begin{array}{r} 2 \overline{) 151.0} \\ \underline{141} \phantom{0} \\ 10 \phantom{0} \\ \underline{10} \phantom{0} \\ 0 \phantom{0} \end{array}$$



a) What does the IQR tell us in this data set?

The IQR tells us the variability

b) What does the Q1 tell us?

Q1 splits up the data into the top two equal quarters.

c) The highest 25% of the data set is above what temperature?

The highest 25% is 75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Princeton's weather is similar

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank Alaska

20 28 32 37 50 62 63 65 66 68 79

Minimum: 20

Maximum: 79

Median: 62

Q1: 32

Q3: 66

a) What does Q3 tell us?

The equal split of the bottom two quarters

b) Why is the Lower Quartile so different for Alaska and New Jersey?

maybe because there was more variability than the other.

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?



Name: Edison

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

Min: 30  
Max: 79  
Q3: 53  
Q1: 75.5  
Median: 61

$$\begin{array}{r}
 75 \\
 + 76 \\
 \hline
 151 \\
 \div 2 \\
 \hline
 75.5
 \end{array}$$

$$\begin{array}{r}
 50 \\
 + 56 \\
 \hline
 106 \\
 \div 2 \\
 \hline
 53
 \end{array}$$

$$\begin{array}{r}
 122 \\
 - 122 \\
 \hline
 0
 \end{array}$$

$$\begin{array}{r}
 122 \\
 - 122 \\
 \hline
 0
 \end{array}$$

$$\begin{array}{r}
 151 \\
 - 141 \\
 \hline
 10 \\
 \div 10 \\
 \hline
 1
 \end{array}$$

| Princeton NJ  |
|---------------|
| <del>30</del> |
| <del>45</del> |
| 50            |
| 56            |
| <del>57</del> |
| 59            |
| 63            |
| <del>65</del> |
| 75            |
| 76            |
| <del>77</del> |
| <del>79</del> |

a) What does the IQR tell us in this data set?

That is is.

b) What does the Q1 tell us?

c) The highest 25% of the data set is above what temperature?

76

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank

Alaska 20 28 32 37 50 62 63 65 66 68 79

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

JAMAR

Name: JOSEPH ~~2/~~ 4/1/19

$2 \overline{) 106}$

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

a) What does the IQR tell us in this data set?

The IQR tells us the variability

b) What does the Q1 tell us?

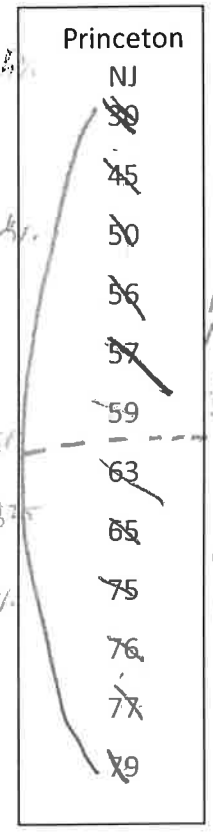
The ~~Q1~~ Q1 tells us that splitting into equal parts.

c) The highest 25% of the data set is above what temperature?

~~70~~ 75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

It is similar to Pittsburgh because they both have big variability



50  
 $456$   
 $106$   
 $Q_1 = 50$   
 Median  
 $63$   
 $159$   
 $122$   
 $2 = 61$   
 $Q_3 = 76$   
 $175$   
 $151$   
 $2 = 75.5$   
 $2 \overline{) 151}$   
 $75$   
 $14$   
 $11$   
 $10$

~~Minimum~~  
 Minimum: 30  
 Maximum: 79  
 Median: 61  
 $Q_1 = 50$   
 $Q_3 = 76$   
 IQR: 32.5  
 $79$   
 $-30$   
 $49$   
 $76$   
 $-53$   
 $23$   
 $75.5 - 53 = 22.5$

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank  
 Alaska ~~20~~ ~~28~~ 32 ~~37~~ 50 62 ~~63~~ ~~65~~ 66 ~~68~~ ~~70~~

Minimum: 20  
 Maximum: 74  
 Median: 62  
 $Q_1 = 32$   
 $Q_3 = 66$

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: La'Nign

6.14 Classwork

Handwritten calculations:  
 $76 + 53 = 129$   
 $75 + 76 = 151$   
 $151 \div 2 = 75.5$   
 $129 \div 2 = 64.5$

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

min: 30      median: 61  
 max: 79      Q1: 53  
                  Q3: 75.5

| Princeton NJ  |        |
|---------------|--------|
| <del>30</del> |        |
| <del>45</del> | Q1     |
| <del>50</del> |        |
| 56            |        |
| <del>59</del> | median |
| <del>63</del> |        |
| <del>65</del> | Q3     |
| 75            |        |
| 76            |        |
| <del>77</del> |        |
| <del>79</del> |        |

a) What does the IQR tell us in this data set?  
 there has a less variability  
 Cause the IQR is smaller

b) What does the Q1 tell us?  
 the lower half

c) The highest 25% of the data set is above what temperature?

75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank  
 Alaska      20   ~~28~~   ~~32~~   ~~37~~   ~~50~~   62   ~~63~~   ~~65~~   ~~66~~   ~~68~~   ~~79~~

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

$\frac{4}{5}$   
 $\frac{10}{100}$

~~1, 15, 17, 16, 8, 5, 25, 10, 12, 7, 8, 4, 8, 4, 12, 12, 7~~

~~1, 7, 15, 15, 16, 17, 17~~  
~~1, 7, 15, 15, 16, 17, 17~~

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

min = 1      Q1 = 4.5       $\frac{175}{10} = 17.5$   
 max = 17      Q3 = 15       $\frac{45}{10} = 4.5$   
 med = 10      IQR = 10.5

- c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?



Name: Patricia

$$\begin{array}{r} 63 \\ + 59 \\ \hline 122 \end{array}$$

$$\frac{59+63}{2} = \frac{122}{2} = \frac{61}{1}$$

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

| Princeton NJ  |
|---------------|
| <del>30</del> |
| <del>45</del> |
| <del>50</del> |
| <del>56</del> |
| <del>57</del> |
| 59            |
| 63            |
| <del>65</del> |
| <del>75</del> |
| <del>76</del> |
| <del>77</del> |
| <del>79</del> |

IQR: 22.5 Q1: 53 Minimum: 30  
 Q3: 75.5 Maximum: 79  
 Median: 61

a) What does the IQR tell us in this data set?

There is ~~less~~ variability because there is a small IQR.

b) What does the Q1 tell us?

Tells us the median of the lower half of the data set

$$\begin{array}{r} 75.5 \quad 211 \quad 51.0 \\ - 53.0 \\ \hline 22.5 \end{array}$$

c) The highest 25% of the data set is above what temperature?

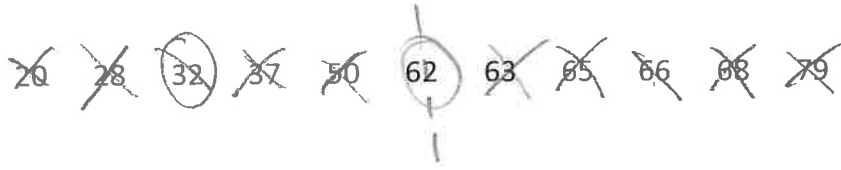
75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

50+56 = 106 / 2 = 53  
 75+76 = 151 / 2 = 75.5

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank Alaska



Min. = 20  
 Max. = 79  
 Median = 62  
 Q1 = 32  
 Q3 = 66

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: Beniyah

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey.

All data is in degrees Fahrenheit.

- minimum: 30  $Q3: 76$
- maximum: 79
- median: 61
- $Q1: 50$

$$\begin{array}{r} 154 \\ +63 \\ \hline 217 \\ \hline 2 \end{array}$$

| Princeton     |                     |
|---------------|---------------------|
| NL            |                     |
| <del>30</del> |                     |
| <del>45</del> | Q1                  |
| <del>50</del> |                     |
| <del>56</del> |                     |
| <del>57</del> |                     |
| 59            | median              |
| 63            |                     |
| <del>65</del> |                     |
| <del>75</del> | $\frac{6+6}{2} = 6$ |
| <del>76</del> |                     |
| <del>77</del> | Q3                  |
| <del>79</del> |                     |

a) What does the IQR tell us in this data set?

IQR tells us the variability in Princeton.

b) What does the Q1 tell us?

Tells us the median for the lower half of the data set

c) The highest 25% of the data set is above what temperature?

~~75~~ 75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Pittsburgh because the range is more spread out.

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank

Alaska 20 28 32 37 50 62 63 65 66 68 79

a) What does Q3 tell us?

median for the highest part of the data set

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: Mason

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

Minimum = 30  
 maximum = 79  
 median = 61  
 $Q_1 = 63$   
 $Q_3 = 75.5$   
 IQR = 12.5

$$\begin{array}{r} 56 \\ + 90 \\ \hline 100 \end{array}$$

$$\begin{array}{r} 100 \\ - 10 \\ \hline 90 \\ - 8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 1 \\ 59 \\ + 63 \\ \hline 122 \end{array}$$

$$122 \div 2 = 61$$

a) What does the IQR tell us in this data set?

the difference between  $Q_1$  and  $Q_3$

b) What does the  $Q_1$  tell us?

The median of the lower half

$$\begin{array}{r} 75.5 \\ - 63.0 \\ \hline 12.5 \end{array}$$

c) The highest 25% of the data set is above what temperature?

75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

| Princeton     |
|---------------|
| NJ            |
| <del>30</del> |
| 45            |
| 50            |
| <hr/>         |
| 56            |
| 57            |
| <hr/>         |
| 59            |
| 63            |
| 65            |
| <hr/>         |
| 75            |
| 76            |
| 77            |
| 79            |

Handwritten notes and calculations next to the Princeton data table, including a vertical number line and calculations for the median and IQR.

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank

Alaska 20 28 32 37 50 62 63 65 66 68 79

a) What does  $Q_3$  tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: JD

4/1/19

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

30 79 61 53 75.5  
22.5  
 $\frac{75.5 - 53.0}{2} = 22.5$

| Princeton NJ |
|--------------|
| 30           |
| 45           |
| 50           |
| 56           |
| 57           |
| 59           |
| 63           |
| 65           |
| 75           |
| 76           |
| 77           |
| 79           |

a) What does the IQR tell us in this data set?

b) What does the Q1 tell us?

c) The highest 25% of the data set is above what temperature?

76-79

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

~~San Francisco~~  
Pittsburgh

50%

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank Alaska 20 28 32 37 50 62 63 65 66 68 79

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?



Name: Ayala

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

Min = 30  
 Max = 79  
 Med = 61  
 Q1 = 53  
 Q3 = 75.5  
 IQR = 22.5

a) What does the IQR tell us in this data set?

The IQR tells us the difference between the lower and higher average temperatures.

b) What does the Q1 tell us?

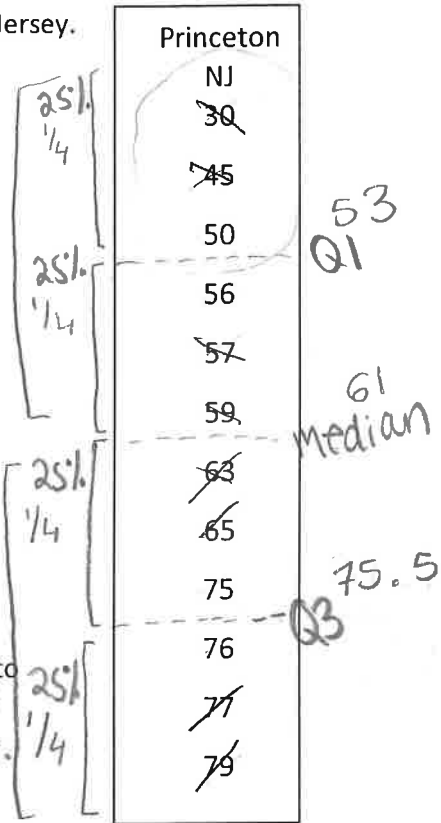
The average of the lower temperatures.

c) The highest 25% of the data set is above what temperature?

75.5

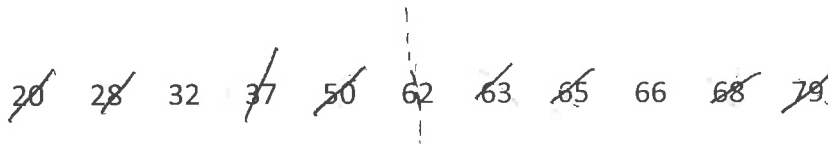
d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

More similar to Pittsburgh because the range is close to 46, which is Princeton's range.



2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank  
 Alaska



Min - 20  
 Max - 79  
 Med - 62  
 Q1 - 66  
 Q3 - 32  
 IQR - 34

a) What does Q3 tell us?

The average of the upper temperatures.

b) Why is the Lower Quartile so different for Alaska and New Jersey?

Alaska and New Jersey are 2 different places in the world, so they have a different range.

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

~~1~~, 15, 17, 16, ~~6~~, 5, 15, 10, ~~11~~, ~~7~~, 8, ~~1~~, 3, ~~4~~, 12, ~~11~~, 17

~~1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17~~

- a) What is the mean number of times Stefan is asked to clean his room?  
 b) What is the five number summary and the IQR?

|            |            |            |            |           |           |
|------------|------------|------------|------------|-----------|-----------|
| <u>Med</u> | <u>Min</u> | <u>Max</u> | <u>IQR</u> | <u>Q1</u> | <u>Q3</u> |
| 9          | 1          | 17         | 7          | 4.5       | 15        |

- c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: Carl

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

| Princeton NJ  |  |
|---------------|--|
| <del>30</del> |  |
| 45            |  |
| (50) Q1       |  |
| (56)          |  |
| 87            |  |
| 59            |  |
| -63 Median    |  |
| -65           |  |
| 75            |  |
| -76 Q3        |  |
| 77            |  |
| 78            |  |

minimum: 30  
 maximum: 79  
 median: 61

$$\begin{array}{r} 59 \\ +63 \\ \hline 122 \\ \div 2 \\ \hline 61 \end{array}$$

$$\begin{array}{r} 50 \\ +56 \\ \hline 106 \\ \div 2 \\ \hline 53 \end{array}$$

$$\begin{array}{r} 75 \\ +76 \\ \hline 151 \\ \div 2 \\ \hline 75.5 \end{array}$$

$$\begin{array}{r} 75.5 \\ -53.0 \\ \hline 22.5 \end{array}$$

$$\begin{array}{r} 75.5 \\ /14 \\ \hline 53.9 \\ \hline 11 \\ /10 \\ \hline 1.1 \\ /10 \\ \hline 0.11 \\ /10 \\ \hline 0.011 \end{array}$$

$$\begin{array}{r} 75.5 \\ -53.0 \\ \hline 22.5 \end{array}$$

$$\begin{array}{r} 75.5 \\ -53.0 \\ \hline 22.5 \end{array}$$

$$\begin{array}{r} 75.5 \\ -53.0 \\ \hline 22.5 \end{array}$$

a) What does the IQR tell us in this data set?

The IQR tells us the difference of

b) What does the Q1 tell us? Q3 - Q1

It tells us the lower Quartile

c) The highest 25% of the data set is above what temperature?

76°

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Princeton is more similar to Pittsburgh because it has a high variability.

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank Alaska 20 28 (32) 37 50 62 63 65 (66) 68 79

Minimum: 20  
 Maximum: 79  
 Median: 62  
 Q1: 32  
 Q2: 66  
 IQR: 34

$$\begin{array}{r} 66 \\ -32 \\ \hline 34 \end{array}$$

a) What does Q3 tell us?

It tells us the Upper Quartile

b) Why is the Lower Quartile so different for Alaska and New Jersey?

The lower Quartile is different because Alaska has

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: Harry

6.14 Classwork

$\frac{50 + 50}{2} = 50$        $75 - 53 = 22$   
 $Q1 = 53$        $Q3 = 75.5$

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

| Princeton NJ |
|--------------|
| 30           |
| 45           |
| 50           |
| 56           |
| 57           |
| 59           |
| 63           |
| 65           |
| 75           |
| 76           |
| 77           |
| 79           |

min 30      max 79

$\frac{63 + 50}{2} = 56.5$

a) What does the IQR tell us in this data set?

The IQR tells us the variability of a data set.

b) What does the Q1 tell us?

It tells us the lower side of the data set.

It tells us the difference of Q3 and Q1.

c) The highest 25% of the data set is above what temperature?

over 76 F.

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Princeton is similar to Pittsburgh because it has a IQR greater and close to Pittsburgh.

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank Alaska

min 20      max 79      median 50  
~~20~~ ~~28~~ ~~32~~ ~~37~~ 50 62 63 65 66 68 79  
 20    28    32    37    50    62    63    65    66    68    79

a) What does Q3 tell us?

It tells us the median of the greater side of the data set.

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: Nicole

6.14 Classwork

75.5  
53.0

22.5

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

Minimum: 30  
Maximum: 79  
Median: 61

Q1: 53 IQR: 22.5  
Q3: 75.5

a) What does the IQR tell us in this data set?

The IQR tells us that it has 75% of the data in the low half.

b) What does the Q1 tell us?

The median variability of the low half.

c) The highest 25% of the data set is above what temperature?

Above 75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Pittsburgh

| Princeton     |
|---------------|
| <del>NJ</del> |
| <del>30</del> |
| <del>45</del> |
| <del>50</del> |
| <del>56</del> |
| <del>57</del> |
| <del>59</del> |
| <del>63</del> |
| <del>65</del> |
| <del>75</del> |
| <del>76</del> |
| <del>77</del> |
| <del>79</del> |

Handwritten calculations for the five number summary:  

$$\begin{array}{r} 50 \\ + 56 \\ \hline 106 \end{array}$$

$$\begin{array}{r} 21510 \\ 141 \\ \hline 2110 \end{array}$$

$$\begin{array}{r} 122 \\ 253 \\ \hline 375 \end{array}$$

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank

Alaska 20 28 32 37 50 62 63 65 66 68 79

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?



Name: Aneesa

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey.

All data is in degrees Fahrenheit.

Minimum = 30      Q1: 53  
 Maximum = 79      Q3: 75.5  
 Median = 61

$$\begin{array}{r} 75 \\ + 76 \\ \hline 151 \\ \end{array}$$

$$\begin{array}{r} 2 \overline{) 151} \\ \underline{14} \phantom{0} \\ 11 \phantom{0} \\ \underline{10} \phantom{0} \\ 10 \phantom{0} \\ \hline 22.5 \end{array}$$

| Princeton |  |
|-----------|--|
| NJ        |  |
| 30        |  |
| 45        |  |
| 50        |  |
| 56        |  |
| 57        |  |
| 59        |  |
| 63        |  |
| 65        |  |
| 75        |  |
| 76        |  |
| 77        |  |
| 79        |  |

Q1  
 Median:  

$$\begin{array}{r} 59 \phantom{00} \\ + 63 \phantom{00} \\ \hline 122 \phantom{0} \\ \hline 61 \phantom{0} \\ \hline 0 \phantom{0} \\ \hline 0 \phantom{0} \end{array}$$

a) What does the IQR tell us in this data set?

IQR: 22.5 = Low variability

b) What does the Q1 tell us?

The median of the lower half.

c) The highest 25% of the data set is above what temperature?

Above 75.5

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Pittsburgh

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank  
Alaska

20 28 32 37 50 62 63 65 66 68 79

Minimum: 20      Q1: 32  
 Maximum: 79      Q3: 66  
 Median: 62      IQR: 34

$$\begin{array}{r} 66 \\ - 32 \\ \hline 34 \end{array}$$

a) What does Q3 tell us?

The median of the upper half.

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

$$\begin{array}{r} 53 \\ 2 \overline{)1106} \\ \underline{10} \\ 006 \\ \underline{00} \\ 6 \end{array}$$

$$\begin{array}{r} 154 \\ 63 \\ \underline{122} \end{array}$$

$$\frac{54+63}{2} = \frac{122}{2} = 61$$

Name: Justin

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

$$\begin{array}{r} 50+56 \\ 2 \overline{)106} \\ \underline{10} \\ 6 \end{array}$$

median = 61, Q1 = 53, Q3 = 75, minimum = 30, maximum = 79

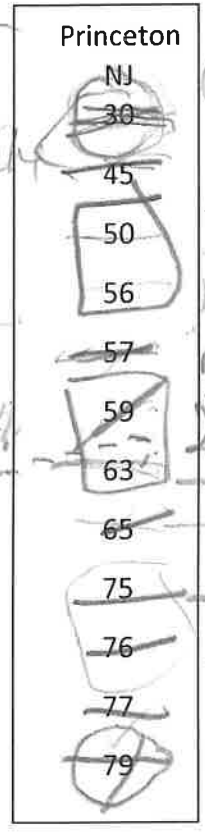
a) What does the IQR tell us in this data set?

b) What does the Q1 tell us?

c) The highest 25% of the data set is above what temperature?

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

The pittsburgh the average



2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank  
Alaska 20 28 32 37 50 62 63 65 66 68 79

a) What does Q3 tell us?

b) Why is the Lower Quartile so different for Alaska and New Jersey?

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?

Name: Gabby

6.14 Classwork

1) Find the five number summary and the IQR for temperatures in Princeton New Jersey. All data is in degrees Fahrenheit.

Minimum: 30 Median: 61 Q3: 75.5  
 Maximum: 79 Q1: 53 IQR:  $75.5 - 53 = 22.5$

75.5  
 53.0  
 ---  
 22.5

| Princeton NJ  |
|---------------|
| <del>30</del> |
| <del>45</del> |
| <del>50</del> |
| 56            |
| <del>57</del> |
| <del>59</del> |
| 63            |
| <del>65</del> |
| 75            |
| 76            |
| <del>77</del> |
| <del>79</del> |

53 } Q1  
 63 } Median  
 $\frac{122}{2} = 61$

a) What does the IQR tell us in this data set?

There's a fair amount of variability, the numbers are just spread out.   
 → maybe even a lot

b) What does the Q1 tell us?

The middle point in the first half is 53; and it's Median splitting the other 2 sides in 2 groups.

c) The highest 25% of the data set is above what temperature?

76° 75.5° 63

d) Is Princeton's weather more similar to Pittsburgh or San Francisco? Use numbers to support your answer.

Range for P, NJ: 49  
 Pittsburgh: 46  
 SF: didn't change more than 20' total  
 It's more similar to San Francisco  
 the range for that is almost 20

2) Find the five number summary and the IQR for temperatures in Burbank, Alaska. All data is degrees in Fahrenheit.

Burbank Alaska  
~~20~~ ~~28~~ ~~32~~ ~~37~~ ~~50~~ ~~62~~ ~~63~~ ~~65~~ ~~66~~ ~~68~~ ~~70~~

Minimum: 20 Median: 62 Q3: 66  
 Maximum: 79 Q1: 32 IQR: 34

a) What does Q3 tell us?

That's the middle point.

b) Why is the Lower Quartile so different for Alaska and New Jersey?

In Alaska, the numbers are closer together than in New Jersey. So, in Alaska the lower q. was smaller.

$$\begin{array}{r}
 + 16 \\
 + 17 \\
 \hline
 23
 \end{array}
 \quad
 \begin{array}{r}
 + 23 \\
 + 16 \\
 \hline
 39
 \end{array}
 \quad
 \begin{array}{r}
 + 39 \\
 + 6 \\
 \hline
 4
 \end{array}$$

3) Stefan wanted to prove to his mom that she nags him about cleaning his room. Every day he counted how many times she asked him to clean his room. This is his data so far.

~~1, 1, 2, 4, 5, 6, 7, 8, 10, 11, 11~~  
~~1, 15, 17, 16, 6, 5, 15, 10, 11, 7, 8, 1, 3, 4, 12, 11, 17~~  
~~12, 15, 15, 10, 17, 17~~

- a) What is the mean number of times Stefan is asked to clean his room?
- b) What is the five number summary and the IQR?

Minimum: 1      Median: 10      Q3: 15      Mean:  $\overline{17}$   
Maximum: 17      Q1: 4.5      IQR: 11.5

- c) Would you agree that his mom is nagging him? Use evidence.

1. Taylor built a toy box 60 inches long, 24 inches wide, and 36 inches high. He has 1 quart of paint that covers about 87 square feet of the surface. Does he have enough to paint the toy box? Justify your answer.

2. Which of the following expressions represent the surface area of a cube with the side length of  $w$ ?

- a.  $w^3$
- b.  $6w^2$
- c.  $6w^3$
- d.  $4w^2 + 2w$

3. A recipe calls for  $\frac{1}{3}$  of a cup of butter. If Matthew is making  $\frac{1}{4}$  of the recipe, how much butter should he use?

4. One-half of the people at the picnic went home sick, but only one-fifth of them were seriously ill. What part of the whole group was seriously ill?