

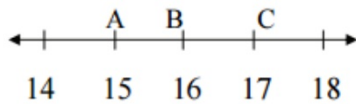
1) $(3x^2)^3 =$

8.EE.1

2) Write $3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x$ using exponents.

8.EE.1

3) Which letter above the number line most accurately shows the location of 5π ?



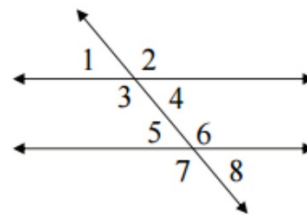
8.NS.2

4) Write the equation for the linear function in the form $y = mx + b$.

x	y
0	6
4	18
8	30

8.F.2

5) Angle 2 and angle 6 are corresponding angles. If angle 2 is 125° , what is the measure of angle 6?



1) $(3x^2)^3 =$

$3x^2 \cdot 3x^2 \cdot 3x^2$
 $27x^6$

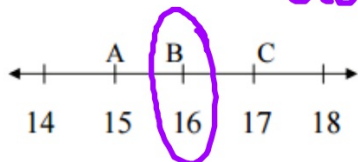
8.EE.1

2) Write $3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x \cdot 3x$ using exponents.

$(3x)^7$

8.EE.1

3) Which letter above the number line most accurately shows the location of 5π ?



$5(3.14)$

B

8.NS.2

4) Write the equation for the linear function in the form $y = mx + b$.

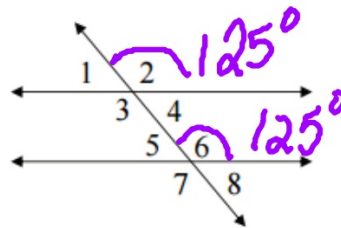
$m = \frac{\Delta y}{\Delta x} = \frac{12}{4} = 3$
 $b = 6$

x	y
0	6
4	18
8	30

$4(\text{circled } 0 \text{ to } 4) \rightarrow 12$

$y = mx + b$
 $y = 3x + 6$

5) Angle 2 and angle 6 are corresponding angles. If angle 2 is 125° , what is the measure of angle 6?



Mean	The sum of the values, divided by the number of values
Median	If an odd number of values, the middle value If an even number of values, the average of the two middle values
Mode	The value or values that occur most often

Variability	The spread of values in a set of data
Range	The difference between the greatest and the least value
Quartile	Three values that divide the data set into fourths
box and whisker plot	A graph that displays the highest and lowest quarters of data as whiskers, the middle two quarters of the data as a box and the median

Find the mean, median, and mode of each data set. Name any outliers.

1) 20, 17, 42, 26, 27, 12, 31

2) 15, 10, 12, 10, 13, 13, 13, 10, 3

3) 22, 34, 36, 18, 36, 40, 25, 23, 32, 43, 43

Find the mean, median, and mode of each data set. Name any outliers.

- 1) 20, 17, 42, 26, 27, 12, 31
mean = 25
median = 26
no mode
no outlier
- 2) 15, 10, 12, 10, 13, 13, 13, 10, 3
mean = 11
median = 12
mode = 10, 13
outlier = 3
- 3) 22, 34, 36, 18, 36, 40, 25, 23, 32, 43, 43
mean = 32
median = 34
mode = 36, 43
no outlier



1. Compare the medians.
2. Compare the ranges.
3. Compare the middle half of the data.
4. Compare the upper extremes.
5. Estimate the 1st quartile value for plot A.
6. Estimate the 3rd quartile value for plot B.
7. Why are box and whisker plots used?

Scatter plots

What is a scatter plot?

A graph that shows the relationship between two sets of data
It looks like a line graph without connecting the dots

What is correlation?

Describes the type of relationship between two sets of data as positive, negative, or no correlation

Three
Types
of
correlation

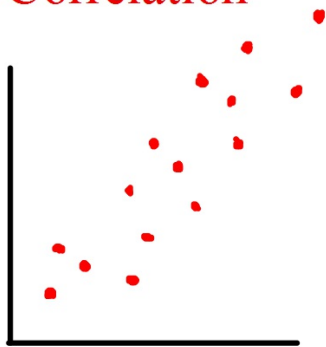
Positive Correlation

Negative Correlation

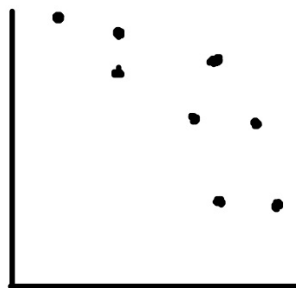
No Correlation

3 Types of Correlation

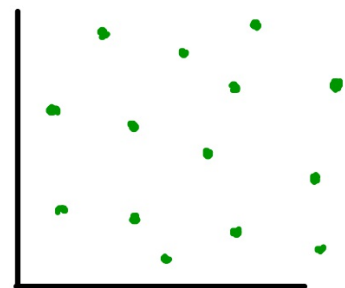
Positive
Correlation



Negative
Correlation



No
Correlation



Positive Correlation
Both x and y values
increase
Both x and y values
decrease

Negative Correlation
One value increases
One value decreases

No Correlation
Does not
increase or
decrease