

Hello Super Sixth Grade!

- Today is THINKING THURSDAY! Please think about what tomorrow is and what we should do to be prepared! Share your thoughts in the chat box.
- Let's have a great day!
Mrs. Oakes

GRADED ASSIGNMENTS

○ Sapphire:

- Unit 6 Test
- Unit 8 Quiz
- Unit 8 Test
- Unit 9 Test

○ Study Island:

- Percents
- Coordinate Planes
- Coordinate Geometry
- Graphing and Interpreting Data
- Statistical Analysis

you
choose not
participate,
turn volume
down until
we move to



**I pledge
allegiance
to the flag of the
United States of
America,
and to the republic
for which it stands,
one nation under
God, indivisible,
with liberty
and justice for all.**

Student Expectations...

Being part of this “school” is awesome! How can YOU make this ocean even more awesome??



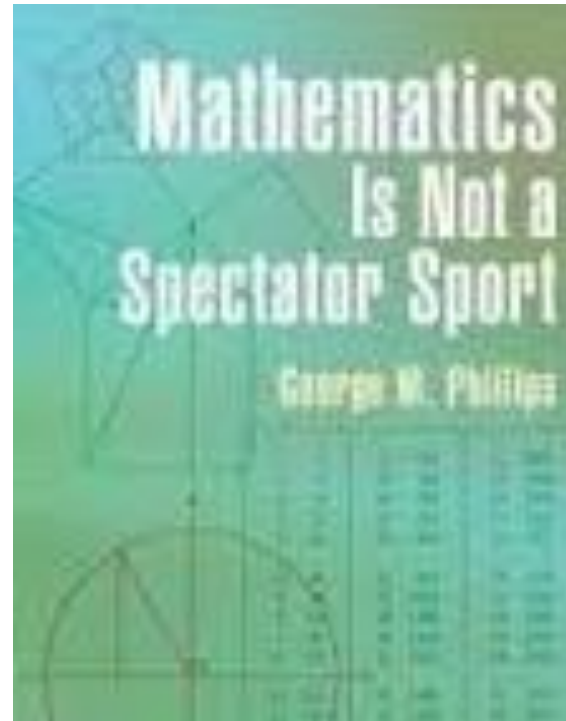
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- ✓ I will BE HERE! **respond** when my name is called, use **polling tools**, **complete classwork**, **notes**, and **chat** to participate!
- ✓ I will **choose my attitude!**
- ✓ I will **demonstrate respect** and **follow directions** for my classmates and teachers to help **make their day!**
- ✓ I will have **fun** learning!

EVERYONE needs a working mic. Call 1-866-K12-care if it's not working. Let's get it fixed!

GET A CALCULATOR,
Notebook AND PENCIL
READY!!!!



End of Marking Period March 27th...
(psssst! That's next TOMORROW)



Homework:

- Study for Unit 10 Test
- Turn in missing 3rd quarter work



UNIT 10
Review

OBJECTIVES

Review

Drag the definition to the correct term.

mean

median

mode



the middle value
in a data set

the average of the
values in a data set

the most frequent
value in a data set

Drag the correct number to its description.

Data Set
8, 5, 2, 3, 2

The least value in the data set:

The greatest value in the data set:

The mean of the data set:

The median of the data set:

The mode of the data set:

2

2

3

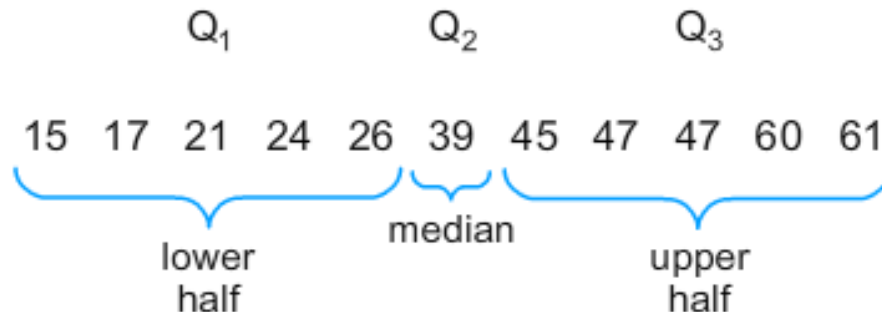
4

8

INTERQUARTILE RANGE (IQR)

- Identify the quartiles of the data set
 - > Median is 2nd quartile
 - > Find median of lower quartile data and that becomes the 1st Quartile
 - > Find median of upper quartile data and that becomes the 3rd Quartile
- Interquartile Range = Difference between 3rd and 1st Quarterile $Q_3 - Q_1$

Quartiles



Let's Try One Together!

Box-and-Whisker Plots

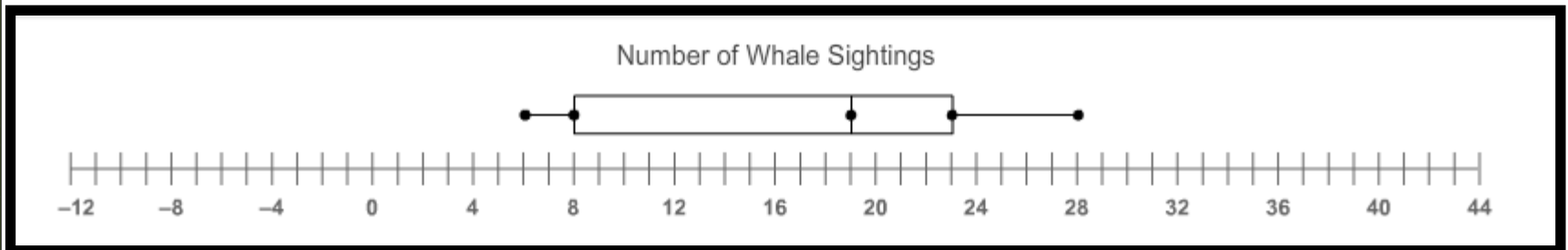
Number of Song Downloads

3 5 6 6 8 8 9 12 14 17 32 33 39 49 63 75

1 2 5 8 6 7 5 9 4 3

QUICK CHECK: Find the IQR of this Box and Whisker Plot

- A. 10
- B. 15
- C. 22
- D. 11



Stem and Leaf Plots

- A stem-and-leaf plot quickly organizes a set of data in a way that makes it easy to see the spread of the data.
- Look at the key!
The number before the line represents the 1st number and the number after the line represents the 2nd number

Stem-and-Leaf Plots

A quiz show has contestants of many different ages.

Ages of Contestants

1		7	8	8		
2		0	3	5	7	7
3		4	8			
4		0	6	6		
5						
6		2	7			
7		1				

Key: 6|2 means 62

Shape of Data

- To help get a sense of the spread of the data, you can draw a curve at the end of the data values.

Shape of Data

A company made a stem-and-leaf plot to show how many vacation days its employees were allowed to take.

Number of Vacation Days

0		5	9			
1		0	0	2		
2		0	1	1	2	5
3		4	9	9		
4		2	4			

Key: 3|9 means 39

Using a Stem and Leaf Plot

- Write out the numbers in a stem and leaf plot from least to greatest to find
 - >Mean
 - >Median
 - >Mode
 - >Range
 - >Quartiles
 - >Interquartile Range

- Is this data symmetrical?

Yes



- No



Shape of Data

A restaurant owner collected data on how long customers stayed in the restaurant.

Minutes in Restaurant

0		8			
1					
2					
3		2	3	5	
4		1	7	8	
5		5	7	8	9

Key: 4|1 means 41

Measures of Center

Find the mean, median, and mode of this data set that gives ages of actors in a play.

What is the mean of this set of data?

- A. 35
- B. 212
- C. 30

What is the mode of this set of data?

- A. 35
- B. 56
- C. 33

What is the median of this set of data?

- A. 35
- B. 33
- C. 29

Ages of Actors

0		9		
1		3	6	
2		1		
3		3	5	5
4				
5		2	6	

Key: 1|3 means 13

Box – and - Whisker Plots

A box-and-whisker plot shows the quartiles of a data set as well as its minimum and maximum.

The minimum and maximum show the full range of the data. The quartiles help show how the data are distributed between those two numbers.

Box-and-Whisker Plots

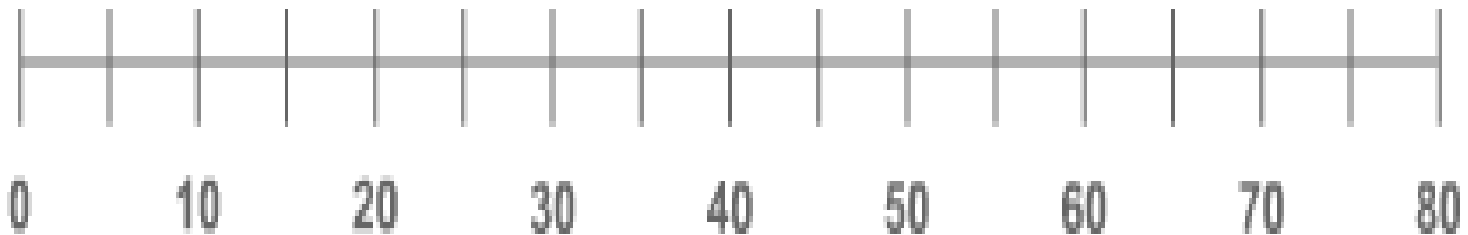
Number of Song Downloads

3 5 6 6 8 8 9 12 14 17 32 33 39 49 63 75

Draw A Number Line And Plot Your Points

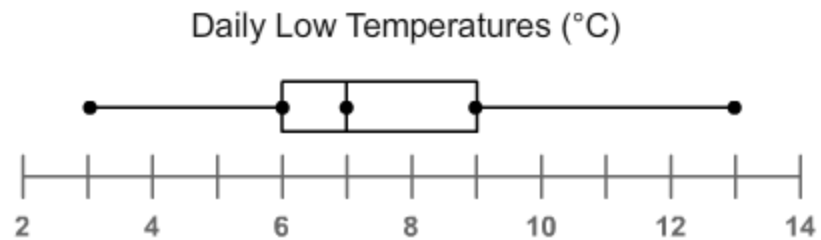
- Plot the 1st, 2nd and 3rd Quarter
- Use the 1st and 3rd Quartile to draw the outside of the box.
- Draw a line through the 2nd Quartile
- Plot minimum and maximum and connect to box
- Title your Box and Whisker Plot

Number of Song Downloads



Waterfall:

Interpreting Box-and-Whisker Plots



What are the quartiles?

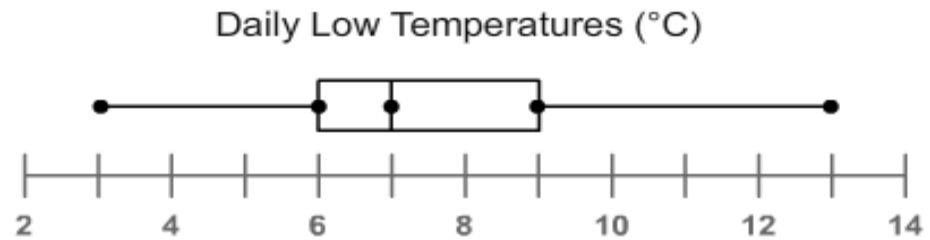
Q_1 :

Q_2 :

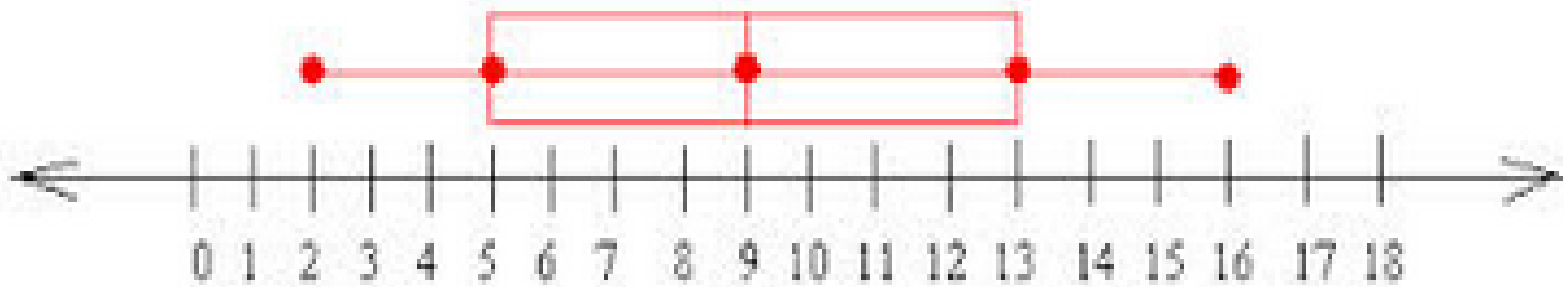
Q_3 :

Waterfall:

Interpreting Box-and-Whisker Plots



What was the median daily low temperature? $^{\circ}\text{C}$



What is the Median of this set of data?

- A. 5
- B. 16
- C. 9

What is the Low Quartile of this set of data?

- A. 5
- B. 2
- C. 13

What is the Upper Quartile of this set of data?

- A. 5
- B. 2
- C. 13

What is the Inter Quartile Range of this set of data?

- A. 14
- B. 2
- C. 8

What is the Rang of this set of data?

- A. 18
- B. 9
- C. 14

Let's Ge



MEAN ABSOLUTE DEVIATION

GETTING MAD!

1. Find the Mean of the Data Set
2. Subtract the Mean from each number in the data set (use its absolute value as answer)
3. Find Mean of Subtraction Answers (add all answers to subtraction questions and divide)

Data set: 3, 5, 9, 10, 15, 18

Data Value
3
5
9
10
15
18

Find the mean absolute deviation of the snake lengths.

1. Find the Mean of the Data Set
2. Subtract the Mean from each number in the data set (use its absolute value)
3. Find Mean of Subtraction Answers (add all answers to subtraction questions and divide)

Snake Lengths (in.)

2		0	7		
3		1	3	5	9
4		0			
5		5			

Key: 4|0 means 40

15. Kevin goes fishing every Saturday. The table below shows the number of fish he caught each week for the last six weeks.

Fish Caught

Week	Number of Fish
1	4
2	0
3	2
4	8
5	4
6	6

What is the mean absolute deviation of the data above?

- A. 2
- B. 1
- C. 4
- D. 8

QUI

17. Heritage Middle School collected cans for the local food bank. The table below shows how many cans each homeroom collected.

Cans Collected

Class	Cans Collected
Mr. Zeta	51
Ms. Yang	16
Mrs. Walsh	64
Mr. Ventana	22
Ms. Underwood	43
Ms. Tillman	8
Mrs. Smith	72
Mr. Robinson	37
Mrs. Quincy	60
Ms. Parker	20
Mr. Olvera	29
Ms. Navarro	58

What is the mean absolute deviation of the cans collected?

- A. 14
- B. 38
- C. 64
- D. 18

Great Job! You guys are
sham-rocking!



QUESTIONS?



Homework:

- Study for Unit 10 Test
- Turn in missing 3rd quarter work