

6th Grade  
May 19, 2021

Today we will:

- Review HW
- Practice Lesson 3

HOMEWORK:

Skills WS

ALEKS time and topics  
due TONIGHT at 11:59PM



# Mean Median Mode Range

Hey Diddle Diddle,  
the **MEDIAN** is the **middle**  
You add then divide for the **MEAN**  
The **MODE** is the one  
that appears there **most**  
And the **RANGE** is  
the **difference** between!



HOMEWORK



Name \_\_\_\_\_

Unit \_\_\_\_\_ Lesson \_\_\_\_\_ Due Date \_\_\_\_\_

## Unit 11 Lesson 1 and 2 Homework Practice

### Measures of Center

\*Calculators OK\*

Find the mean, median, and mode for each set of data. If necessary, round to the nearest tenth.

1. 4, 6, 12, 5, 8

Numbers in order: 4, 5, 6, 8, 12

Mean:  $(4 + 5 + 6 + 8 + 12) \div 5 = 35 \div 5 = 7$

Median: 6

Mode: None

2. 3.1, 4.5, 4.5, 4.3, 6.0, 3.2

Numbers in order: 3.1, 3.2, 4.3, 4.5, 4.5, 6.0

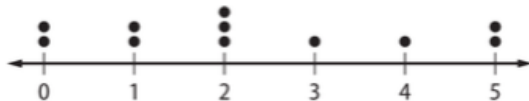
Mean:  $(3.1 + 3.2 + 4.3 + 4.5 + 4.5 + 6.0) \div 6 = 25.6 \div 6 = 4.3$

Median:  $\frac{4.3 + 4.5}{2} = 4.4$

Mode: 4.5

Find the mean, median, and mode for each set of data. If necessary, round to the nearest tenth.

- 3.



Numbers in order: 0, 0, 1, 1, 2, 2, 3, 4, 5, 5

Mean:  $(0 + 0 + 1 + 1 + 2 + 2 + 3 + 4 + 5 + 5) \div 11 = 2.3$

Median: 2

Mode: 2

# Lesson 3 Homework Practice

## Measures of Variability

Find the measures of variability and any outliers for each set of data.

1. {3, 9, 11, 8, 6, 12, 5, 4, 29}

Numbers in order:

3, 4, 5, 6, 8, 9, 11, 12, 29  
*Q1* above 4, *Median* above 8, *Q3* above 11

Range:  $29 - 3 = 26$

Q1:  $\frac{4+5}{2} = 4.5$

Q3:  $\frac{11+12}{2} = 11.5$

IQR:  $11.5 - 4.5 = 7$

*Q3 - Q1*  
 Outliers: 29

2. 64, 67, 69, 79, 81, 81, 83, 83, 84, 86, 90, 91, 92, 95

Fossils in Museum Exhibits	
64	67
69	79
81	81
83	83
84	86
90	91
92	95

Numbers in order:

Range:  $95 - 64 = 31$

Q1: 79

Q3: 90

IQR:  $90 - 79 = 11$

Outliers: None

For Exercises 3 and 4, use the data in the table at the right.

3. What is the range of annual growth rates shown?

max - min  
 $5.33 - 0.35 = 4.98$

4. What is the interquartile range for the populations?  
 (Note: The numbers are in backwards order.)

Median:  $\frac{13.4 + 12.9}{2} = 13.15$

Q1: 12.9

Q3: 18.1

IQR:  $18.1 - 12.9 = 5.2$

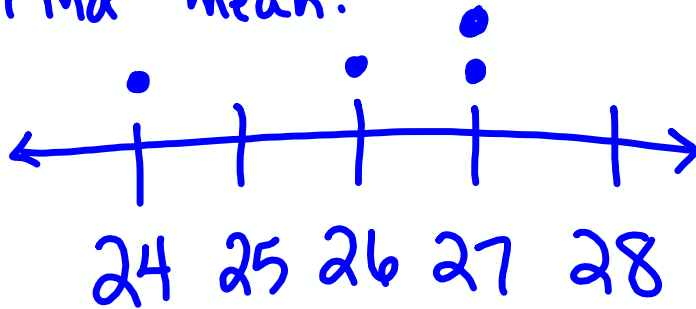
*Q3 - Q1*

Populations of the World's Largest Cities 2000		
City	Population millions	Annual Growth Rate (%)
Tokyo, Japan	26.4	0.51
Mexico City, Mexico	18.1	1.81
Mumbai, India	18.1	3.54
Sao Paulo, Brazil	17.8	1.43
New York City, U.S.	16.6	0.37
Lagos, Nigeria	13.4	5.33
Los Angeles, U.S.	13.1	1.15
Calcutta, India	12.9	1.60
Shanghai, China	12.9	0.35
Buenos Aires, Argentina	12.6	1.14



white board practice

Find mean.



$$(24 + 26 + 27 + 27) \div 4 = 26$$

Median  
Mode

46, 62, 62, 57, 50, 42, 56, 40  
 40, 42, 46, 50, 56, 57, 62, 62

Median = 53

Mode = 62

Compare → The mode is 9 more than the median.





HOMEWORK

Name \_\_\_\_\_  
 Unit \_\_\_\_ Lesson \_\_\_\_ Due Date \_\_\_\_\_

Complete and put into binder.

Skills Practice WS, Ch11 Lesson 3, Due May 20

## Lesson 3 Skills Practice \*\*Don't forget to put in order least to greatest!

### Measures of Variation

Find the range, median, first and third quartiles, and interquartile range for each data set. Name any outlier

1.

Number of Boxes of Popcorn Sold						
52	72	96	21	58	40	75

In order:

Range=  
 Median=  
 Q<sub>1</sub>=  
 Q<sub>3</sub>=  
 IQR=  
 Outliers=

2.

Number of Text Messages Sent							
20	23	18	4	17	21	15	56

3.

Test Grades								
83	83	85	87	89	88	67	79	81

4.

Ages of Grandmothers (yr)								
59	72	65	51	62	77	82	64	54

5.

Time to Sprint 40 Meters (s)									
6.3	6.7	6.2	4.9	6.7	6.6	6.1	6.3	6.4	5.8

6.

Number of DVDs									
15	16	18	9	18	17	19	19	4	36