7th Grade
May 4, 2021

Today we will:

-Review yesterday's WS

-Watch video notes on MAD

-Begin WS

HOMEWORK:

Complete WS

ALEKS time and topics due TONIGHT at 11:59PM

NAME _____ DATE _____ PERIOD _____

Lesson 1 Homework Practice   *Calculators OK*
Measures of Center

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:

Mean: 7

Median: 6

Mode: none

2.   16, 18, 15, 16, 21, 16

Numbers in order:

Mean: 17

Median: 16

Mode: 16

5.   25, 25, 25, 20

Numbers in order: 20 25, 25 25

Mean: 23.8

Median: 25

Mode: 25

6.   3.1, 4.5, 4.5, 4.3, 6.0, 3.2

Numbers in order:

Mean: 4.3

Median: 4.4

Mode: 4.5

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

7.

Numbers in order:

Mean: 2.3

Median: 2

Mode: 2

9. The table below shows the number of tornadoes reported in the United States from 1997-2007. Find the mean, median, and mode for the number of tornadoes. If necessary, round to the nearest tenth.

Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Number of Tornadoes	1148	1417	1342	1071	1216	941	1367	1819	1264	1106	1074

Numbers in order:

Mean: 1251.4

Median: 1216

Mode: none

NAME _____ DATE _____ PERIOD _____
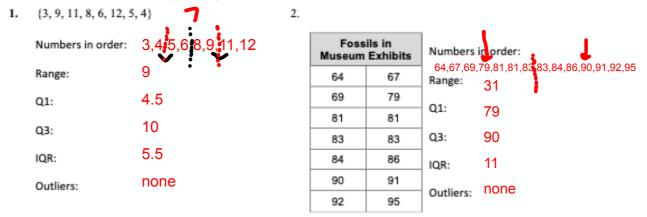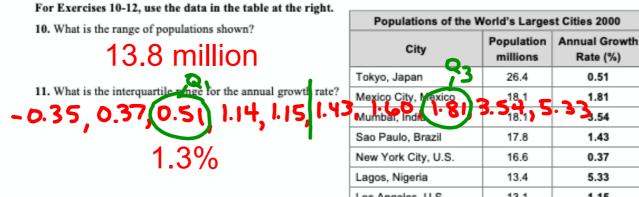
Lesson 2 Homework Practice
Measures of Variability

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

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

    Numbers in order: 3,4,5,6,8,9,11,12   **7**

    Range: 9

    Q1: 4.5

    Q3: 10

    IQR: 5.5

    Outliers: none

2.

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

    Numbers in order:
    64,67,69,79,81,81,83,83,84,86,90,91,92,95

    Range: 31

    Q1: 79

    Q3: 90

    IQR: 11

    Outliers: none

For Exercises 10-12, use the data in the table at the right.

10. What is the range of populations shown?

    13.8 million

11. What is the interquartile range for the annual growth rate?

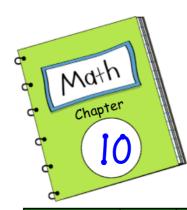   **−0.35, 0.37, 0.51, 1.14, 1.15, 1.43, 1.60, 1.81, 3.54, 5.33**

    1.3%

12. Where does the city with the fastest growth rate fall in terms of population? The city with the slowest growth rate?

    near the median;

    at the first quartile

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

Math

Chapter

10

TITLE:
Statistics

Date	Lesson	Topic/Assignment
4/29	1	Measures of Center Packet
4/30	2	Measures of Variability Packet
5/3	1-2	HW Practice WS
5/4	3	MAD Video Notes
5/5	3	#2 and #5 Practice WS

Name _____

10-3
Mean Absolute Deviation (MAD)

Mean Absolute Deviation is:

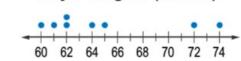Example: Find MAD for the following data set:

16   18   19   20   21

More video notes:

1. The table shows points scored by a basketball player in his last seven games. Find the mean absolute deviation. Describe what the mean absolute deviation represents.

Points Scored
17 22 17 30
15 17 8

2. The dot plots show the heights of the girls and boys in the glee club.

Girls' Heights (inches)

59 60 61 62 63 64 65 66 67

Boys' Heights (inches)

60 62 64 66 68 70 72 74

a. Find the mean absolute deviation for each set of data.
b. Write a few sentences comparing their variation.

a) mean = 63

$$
\begin{array}{cccccccc}
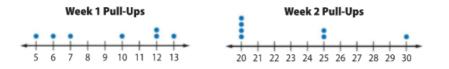63 & 63 & 63 & 63 & 64 & 64 & 64 & 67 \\
-59 & -61 & -62 & -63 & -63 & -63 & -63 & -63 \\
\hline
4 & 2 & 1 & 0 & 1 & 1 & 1 & 4
\end{array}
$$

Find mean again.

$$\frac{4+2+1+0+1+1+1+4}{8}$$

$$= \frac{14}{8} = \boxed{1.75} \text{ MAD}$$

Welcome to our class

IN THIS CLASSROOM WE DON'T give up, BUT WE DO give our best effort

HARD WORK PAYS OFF

WELCOME

7th Grade
Homework

#2 and #5 Practice WS

ALEKS time and topics due Monday night

pg449 #2 and #5 task to try on your own. Copy into notebook after video notes and complete. You may use a calculator, but show steps like I did in the video.

2. The dot plots show the number of pull-ups Joe did each day during two different weeks. Find the mean absolute deviation for each set of data. Round to the nearest hundredth. Then write a few sentences comparing their variation. (Example 2)

Week 1 Pull-Ups

5 6 7 8 9 10 11 12 13

Week 2 Pull-Ups

20 21 22 23 24 25 26 27 28 29 30

Find the mean and the mean absolute deviation of each data set.

5 Ages of children at a family reunion: 0, 5, 7, 3, 9, 12, 5, 2, 4, 3