May 20, 2021

6th Grade
May 20, 2021

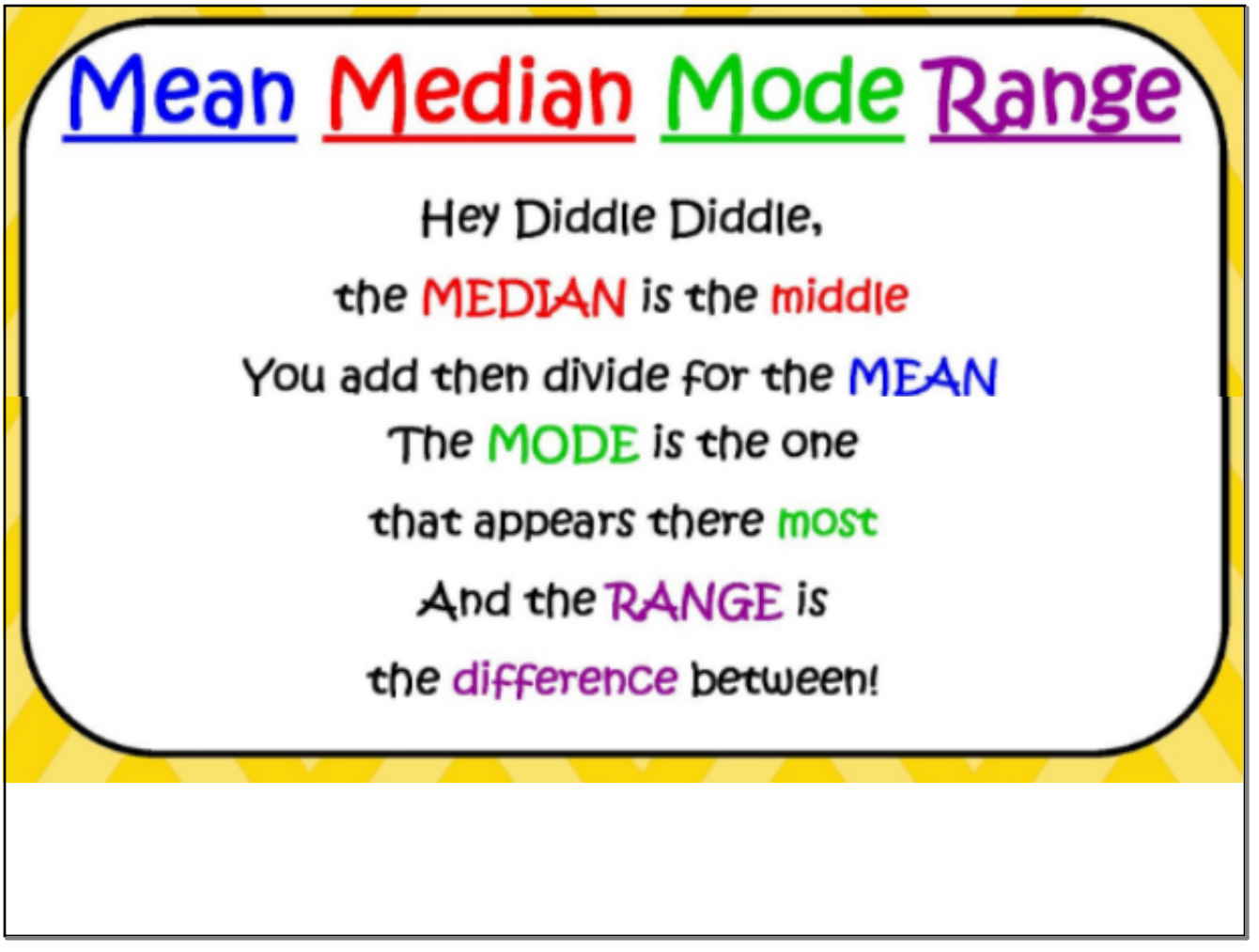
Today we will:

-Review HW

-Practice statistics with ALEKS assignment

HOMEWORK:

ALEKS assignment due tomorrow


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!

Check completed notes/HW and put in binder if it is not already.

Skills Practice WS, Ch11 Lesson 3, 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

Put in order:
21, 40, 52, 58, 72, 75, 96
40 = Q_1, 58 = median, 75 = Q_3

Range = 96 − 21 = 75
Median = 58
Q_1 = 40
Q_3 = 75
IQR = 75 − 40 = 35
Outlier? No

2.

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

Put in order:
4, 15, 17, 18, 20, 21, 23, 56
$Q_1 = \frac{15+17}{2} = 16$ median $= \frac{18+20}{2} = \frac{38}{2} = 19$ $Q_3 = \frac{21+23}{2} = 22$

Range = 56 − 4 = 52
Median = 19
Q_1 = 16
Q_3 = 22
IQR = 22 − 16 = 6
Outlier? 4 and 56

3.

Test Grades								
83	83	85	87	89	88	67	79	81

Put in order:
67, 79, 81, 83, 83, 85, 87, 88, 89
$Q_1 = \frac{79+81}{2} = 80$ median $Q_3 = \frac{87+88}{2} = 87.5$

Range = 89 − 67 = 22
Median = 83
Q_1 = 80
Q_3 = 87.5
IQR = 87.5 − 80 = 7.5
Outlier? 67

4.

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

51 54 59 62 64 65 72 77 82

$Q_1 = \frac{54+59}{2} = 56.5$ median $Q_3 = \frac{72+77}{2} = 74.5$

Range: 82 - 51 = 31
Median: 64
Q_1 = 56.5
Q_3 = 74.5
IQR = 18
Outlier? No

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

4.9 5.8 6.1 6.2 6.3 6.3 6.4 6.6 6.7 6.7

Q_1 median = 6.3 Q_3

Range: 6.7 - 4.9 = 1.8
Median = 6.3
Q_1 = 6.1
Q_3 = 6.6
IQR = 6.6 - 6.1 = 0.5
Outlier? 4.9 (In reference to the rest of the sprint times, 4.9 is much faster than the rest, which are around 6 seconds or higher.)

6.

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

4 9 15 16 17 18 18 19 19 36

Q_1 median = $\frac{17+18}{2} = 17.5$ Q_3

Range: 36 - 4 = 32
Median = 17.5
Q_1 = 15
Q_3 = 19
IQR = 19 - 15 = 4
Outlier? 4 and 36 (4 is iffy as a low outlier because of 9, but 36 is an outlier for sure.)

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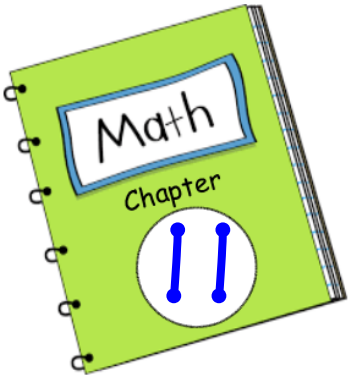
Please update your table of contents:



TITLE: Statistical Measures

Date	Lesson	Topic/Assignment
May 17	1-2	Mean, Median, Mode, Range Video Notes
May 17	1-2	Practice WS
May 18	3	Quartiles, IQR, Outliers Video Notes
May 19	1-3	HW Practice WS
May 19	3	Skills Practice WS

May 20, 2021


Welcome to our class
IN THIS CLASSROOM WE DON'T give up, BUT WE DO give our best effort
HARD WORK PAYS OFF
WELCOME
6th Grade
Homework
ALEKS assignment on statistics