



## Warm Up Grade 7



Find the mean, median, mode and range of the data:

~~15~~, ~~18~~, ~~25~~, ~~31~~, ~~10~~, ~~35~~, ~~31~~, ~~17~~

10, 15, 17, 18, 25, 31, 31, 35

$$\begin{aligned} \text{Mean} &= \frac{\text{Sum}}{\# \text{ data}} \\ &= \frac{182}{8} \\ &= 22.75 \end{aligned}$$

middle

$$\begin{aligned} \text{median} &= \frac{18+25}{2} \\ &= \frac{43}{2} \\ &= 21.5 \end{aligned}$$

# repeats most

$$\text{Mode} = 31$$

Range  $\Rightarrow$  Big - Small

$$\begin{aligned} &= 35 - 10 \\ &= 25 \end{aligned}$$

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1 a) 80, 85, 85, 90, 90, 95, 100

$$\text{median} = 90$$

$$\text{range} = 100 - 80 \\ = 20$$

b) 12, 15, 19, 21, 30, 52, 61, 85

$$\text{median } \frac{21+30}{2} \\ = \frac{51}{2} = 25.5$$

$$\text{range } 85 - 12 \\ 73$$

2. Class A

8, 9, 9, 12, 12, 13, 13, 14, 15, 15

$$\text{median } \frac{12+13}{2} \\ \frac{25}{2} = 12.5$$

$$\text{range } 15 - 8 \\ 7$$

Class B

10, 10, 11, 11, 12, 12, 13, 13, 14, 14

$$\text{median } 12 \\ \text{range } 14 - 10 \\ 4$$

c) students opinion, with explanation

3i) 4, 5, 7, 8, 11

mode - none

median 7

mean  $\frac{35}{5} = 7$

ii) 50, 50, 55, 65, 70, 70

mode 50 and 70

median  $\frac{55+65}{2} = 60$

mean  $\frac{360}{6} = 60$

iii)

7, 63, 68, 71, 71

mode 71

median 68

mean  $\frac{280}{6} = 56$

iv)

6, 13, 13, 13, 20

mode 13

median 13

mean  $\frac{65}{6} = 13$

b) orally

4  
a)           80 100 100 100

mode 100

median and mean equal

mean and median 90  $6 \times 90 = 540$

90 95 100 100 105 110

mode 100

median and mean 100

b) mode 100

mean is less than median

10 20 85 95 100 100

median 90

sum has to be less than  $6 \times 90$   
540

5. a) median 158

140 146 150 154 158 158 160 162 165 180

b) mode 163

176 142 158 163 160 163 177 163 139 148

6 a) 118, 118, 120, 124, 138, 210

median 120

mode 118

b) 118 118 120 122 124 138

median 121

The time for the next race has to be 122.

c) A time of 210 will have the biggest effect on the mean.

7a) Game

mode 11

median 12

mean  $\frac{124}{10} = 12.4$

Assist

mode 4

median 17

mean  $\frac{109}{10} = 10.9$

Penalty Minutes

mode 2 and 8

median 8

mean  $\frac{183}{10} = 18.3$

Goals

3

$$\frac{5+7}{2} = 6$$

$$\frac{97}{10} = 9.7$$

Points

10

$$\frac{14+20}{2} = 17$$

$$\frac{207}{10} = 20.7$$

## Class/Homework

Worksheet 1



Worksheet 2



Unit 7 Data Analysis (Part 1) Test  
will be TUESDAY, OCT. 7

Topics: Mean, Median, Mode, Range, Outliers

8 Multiple Choice

3 Short Response

(VERY similar To wamp ups)

## Attachments

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Extra Practice 2 Median & Range.pdf

Extra Practice 1 Mean & Mode.pdf