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

middle

Mean = $\dfrac{\text{add up all \#}}{\text{\# of data}}$ = $\dfrac{182}{8}$ = 22.75

median ⇒ middle # ⇒ $\dfrac{18+25}{2}$ = $\dfrac{43}{2}$ = 21.5

mode ⇒ # repeated most = 31

Range ⇒ Big # − Small #
35 − 10
25

Pg 264

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

median = 90

range = 100 - 80
        = 20

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

median $\frac{21 + 30}{2}$

$= \frac{61}{2} = 25.5$

range 85 - 12
        73

2. Class A

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

median $\frac{12 + 13}{2}$

$\frac{25}{2} = 12.5$

range 15 - 8
        7

Class B

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

median 12
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   6×90=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
sun has to be less than 6×90
                        540

5.a) median 158

140 145 150 154 158 158 160 162 165 180

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 affect on the mean.

$$124 \quad \underline{} \quad 128$$

$$\downarrow$$

$$126$$

7a) Game

mode   11

median   12

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

Assist

mode 4

median 17

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

Penalty Minutes

mode   2 and 8

median   8

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

Goals

3

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

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

Points

10

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

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

Class/Homework

Worksheet 1   # 1 a b
              # 2 ab
              # 3 ab →Just Games Played

Worksheet 2   # 1ab   # 4 a b
              # 2ab

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

Extra Practice 2 Median & Range.pdf

Extra Practice 1 Mean & Mode.pdf