

Quiz Results

A x x x x x x x

B x x x x x x

C x x x x

D x x

F x x x x x x

avg. 15

$$6 - 0 = 6 + 1 = 7 \quad \Delta$$

$$\begin{array}{r} 0 + 7 = 7 \\ \hline 7 - 1 \\ \hline 0 - 6 \end{array}$$

14 to 20

midpoint

$$\frac{14 + 20}{2} = \frac{34}{2} = 17$$

Boundary

upper limit of one class
+ lower limit of next
class

$$\frac{\text{upper bound} - \text{lower bound}}{2}$$
$$6.5 - (-.5) = 7$$

Class one
width

$$3.95 \quad a) \quad Q_2 \quad \frac{30+1}{2} = \frac{31}{2} = 15.5$$

$$\frac{28+29}{2} = 28.5 \quad Q_2$$

$$Q_1 \quad \frac{15+1}{2} = \frac{16}{2} = 8$$

$$Q_1 = 25$$

$$Q_3 = 33$$

$$\begin{array}{cccccc} 20 & 1^{st} & 25 & 2^{nd} & 28.5 & 3^{rd} & 33 & 4^{th} & 43 \\ \text{Min} & & Q_1 & & Q_2 & & Q_3 & & \text{Max} \end{array}$$

Where is 31 ?

$$\begin{array}{r} 30 \\ .65 \\ \hline 150 \\ 180 \\ \hline 1950 \end{array} \text{ place} \quad \text{The value is } 31$$

$$\frac{20}{30} = \overline{.6666}$$

$$\overline{.33}$$

3.63

x	f	m	mf	m ² f
0 to < 4	17	2	34	68
4 to < 8	23	6	138	828
8 to < 12	15	10	150	1500
12 to < 16	11	14	154	2156
16 to < 20	8	18	144	2592
20 to < 24	6	22	132	2904
	80		752	10,048

$$\frac{\sum mf}{n}$$

$$\frac{752}{80} = 9.4$$

$$\sum m^2 f$$

$$s^2 = \frac{\sum m^2 f - \frac{(\sum mf)^2}{n}}{n-1}$$

$$= \frac{10048 - \frac{(752)^2}{80}}{79}$$

$$\approx 37.7114$$

$$s = \sqrt{37.7114}$$

$$\approx 6.14$$

$$3.101 \quad Q_2 \quad \frac{20+1}{2} = 10.5$$

$$Q_2 = 17$$

$$Q_1 \quad \frac{10+1}{2} = 5.5$$

$$IQR = Q_3 - Q_1 = 15$$

$$\text{Min} = 3 \quad Q_1 = 9$$

$$f_L = Q_1 - 1.5(IQR)$$

$$= 9 - 1.5(15)$$

$$= -13.5$$

$$\text{Max} = 34 \quad Q_2 = 17$$

$$Q_3 = 24$$

$$f_u = 24 + 1.5(15)$$

$$= 46.5$$



