

## Probability &amp; Statistic data analysis.

~~Quiz~~ Quiz 1

## Question 1

a. mean

$$= 15 + 20 + 25 + 30 + 35 + 40 + 20 + 25 + 30 + 35 + 40 + 45 + 50 + 55 + 60$$

$$= 515$$

$$= 35$$

$$f1 =$$

b. Median

$$= 15, 20, 20, 25, 25, 30, 30, 35, 35, 40, 40, 45, 50, 55, 60$$

$$= 35$$

## Question 2. ...

...

class interval (in kg)	Mid point (kg)	Frequency	Cumulative frequency
1 - 5	3	6	6
6 - 10	8	10	16
11 - 15	13	18	34
16 - 20	18	9	43
21 - 25	23	7	50
26 - 30	28	10	60
Total	93	60	209

$$b. \text{ median position } = \frac{n}{2} = \frac{60}{2}$$

$$= 10.5 + \left( \frac{(60 - 16)}{2} \right) \times 5$$

$$= 10.5 + \left( \frac{14}{8} \right) \times 5$$

$$= 10.5 + \left( \frac{30 - 16}{18} \right) \times 5$$

$$= 14.38 \text{ \pounds}$$



11, 12, 13, 14, 15, 17, 18, 22

$$75 \times 8 = 6$$

$$0A + \overline{100} + 2B + C + D + E + F + G + H + I + J + K + L + M + N + O + P + Q + R + S + T + U + V + W + X + Y + Z =$$

$= 75$  is a element of  $G$  in the number of complaints per weeks.

$$= 17$$

$0.75 = 17, 04, 04, 28, 28, 08, 08, 28, 28, 08, 08, 21$   
 $28 =$

~~x is 920~~

So,  $x = 20$  because it follows the pattern of the data in ascending order.

Order Interval (in P)	Mid point (in P)	Frequency	Normalized frequency
1-2	3	2	2
2-3	8	10	10
3-4	18	8	8
4-5	18	7	7
5-6	28	4	4
6-7	38	10	10
7-8	48	20	20

~~$C_2 = n \cdot \pi$  арифметическая прогрессия~~

$$= 10.2 + \begin{pmatrix} 0.01 - 10.1 \\ 10.1 \end{pmatrix} \times 2$$

$$2 \times \left( \frac{41}{2} \right) + 2.01 =$$

$$Z = \begin{pmatrix} 10.24 \\ 30.16 \\ 18 \end{pmatrix}$$