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Probability & statistic data analysis.

~~Ques~~ Quiz 1

Question 1

a. mean

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

= 35

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. Median position $= \frac{n}{2} = \frac{60}{2}$

$$= 10.5 + \left(\frac{\left(\frac{60}{2} - 16\right)}{18} \right) \times 5$$

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

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

$$= 14.38$$

No:

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Question 3.

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

75 x 8 = 6

100

= 75 is a element of 6 in the number of complaints per weeks.

= 17

75 = 17

~~x is a 20~~

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