

wt. less than (in kg)	no. of students	CI	frequency	cf
38	0	0-38	0	0
40	3	38-40	3	3
42	5	40-42	2	5
44	9	42-44	4	9
46	14	44-46	5	cf 14
48	28	46-48	14	28
50	32	48-50	4	32
52	35	50-52	3	35

$$\frac{N}{2} = \frac{35}{2} = 17.5$$

Median class 46-48

$$l = 46, h = 2$$

$$\text{Median wt.} = l + \frac{\frac{N}{2} - cf}{f} \times h$$

$$= 46 + \frac{17.5 - 14}{14} \times 2$$

$$= 46 + \frac{3.5}{7}$$

$$= 46.5 \text{ kg}$$