

length (cm)	frequency	mid point	Cumulative f	#
80-90	7	85	7	$\frac{1}{7}$
90-100	21	95	28	$\frac{8}{28}$
100-110	55	105	83	$\frac{29}{83}$
110-120	37	115	120	$\frac{84}{120}$
120-130	18	125	138	$\frac{121}{138}$

$$n = 138$$

$$\frac{nx}{100} = \frac{138(50)}{100} = 69^{\text{th}} \text{ entry}$$

$\therefore$  in class 100-110

$$L = 100 \quad f = 55 \quad CF = 28 \quad i = 10$$

$$P_{50} = 100 + \frac{(69 - 28) \times 10}{55}$$

$$P_{50} = 104.45 \text{ cm}$$

$$\text{Median} = 104.45 \text{ cm}$$