

age (in years)	no. of patients $f_i$	class Marks $x_i$	$f_i x_i$
5-15	6	10	60
15-25	11	20	220
25-35	21 $f_0$	30	630 $\rightarrow 920$
<u>35-45</u>	<u>23</u> $f_1$	40	700
45-55	14 $f_2$	50	300
55-65	5	60	
	<u>80</u>		<u>2830</u>

Modal class is 35-45

$$l = 35$$

$$h = 45 - 35$$

$$= 10$$

$$\text{Mode} = l + \frac{f_1 - f_0}{2f_1 - f_0 - f_2} \times h$$

$$= 35 + \frac{23 - 21}{46 - 21 - 14} \times 10$$

$$= 35 + \frac{2}{11} \times 10$$

$$= 35 + 1.8$$

$$= 36.18$$

Modal age = 36.18 years

$$\text{Mean} = \frac{\sum f_i x_i}{\sum f_i} = \frac{2830}{80} = 35.375$$

Mean age = 35.375 years