



Exercise 14F

Question 3:

For calculating the mean , we prepare the following frequency table :

Age (in years) (X_i)	Frequency (f_i)	$f_i X_i$
15	3	45
16	8	128
17	9	153
18	11	198
19	6	114
20	3	60
	$\Sigma f_i = 40$	698

$$\text{Mean} = \frac{\Sigma f_i X_i}{\Sigma f_i} = \frac{698}{40} = 17.45$$

\therefore mean age of the students = 17.45 years.

Question 4:

For calculating the mean , we prepare the following frequency table :

Variable (X_i)	Frequency (f_i)	$f_i X_i$
10	7	70
30	8	240
50	10	500
70	15	1050
89	10	890
	$\Sigma f_i = 50$	$\Sigma f_i X_i = 2750$

$$\text{Mean} = \frac{\Sigma f_i X_i}{\Sigma f_i} = \frac{2750}{50} = 55.$$

***** END *****