



### Exercise 9A

Question 5:

We have

Class	Frequency $f_i$	Mid - value $x_i$	$f_i x_i$
25 - 35	6	30	180
35 - 45	10	40	400
45 - 55	8	50	400
55 - 65	12	60	720
65 - 75	4	70	280
	$\Sigma f_i = 40$		$\Sigma f_i x_i = 1980$

$$\therefore \text{Mean, } \bar{x} = \frac{\Sigma (f_i x_i)}{\Sigma f_i} = \frac{1980}{40} = 49.5$$

Question 6:

We have

Class	Frequency $f_i$	Mid Value $x_i$	$f_i x_i$
0 - 100	6	50	300
100 - 200	9	150	1350
200 - 300	15	250	3750
300 - 400	12	350	4200
400 - 500	8	450	3600
	$\Sigma f_i = 50$		$\Sigma f_i x_i = 13200$

$$\therefore \text{Mean, } \bar{x} = \frac{\Sigma (f_i x_i)}{\Sigma f_i} = \frac{13200}{50} = 264$$

\*\*\*\*\* END \*\*\*\*\*