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
	$\Sigma f_i x_i = 40$		$\Sigma f_i x_i = 1980$

$\therefore$ 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
	$\Sigma f_i = 50$		$\Sigma f_i x_i = 13200$

$\therefore$ Mean, $\bar{x} = \frac{\Sigma (f_i x_i)}{\Sigma f_i} = \frac{13200}{40} = 264$

********** END **********