Exercise 9A

Question 3:

We have

Class	Frequency f_i	Class Mark x_i	$f_i x_i$
10 - 20	11	15	165
20 - 30	15	25	375
30 - 40	20	35	700
40 - 50	30	45	1350
50 - 60	14	55	770
60 - 70	10	65	650
	$\Sigma f_i = 100$		$\Sigma f_i x_i = 4010$

$\therefore$ Mean, $\bar{x} = \frac{\Sigma (f_i \times x_i)}{\Sigma f_i} = \frac{4010}{100} = 40.10$

Question 4:

We have

Class	Mid value x_i	Frequency f_i	$f_i x_i$
10 - 20	15	6	90
20 - 30	25	8	200
30 - 40	35	13	455
40 - 50	45	7	315
50 - 60	55	3	165
60 - 70	65	2	130
70 - 80	75	1	75
	$\Sigma f_i = 40$		$\Sigma f_i x_i = 1430$

$\therefore$ Mean, $\bar{x} = \frac{\Sigma (f_i \times x_i)}{\Sigma f_i} = \frac{1430}{40} = 35.75$

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