

Exercise 14F

Question 5:

We prepare the following frequency table:

(X _i)	(f _i)	f_iX_i
3	6	18
5	8	40
7	15	105
9	Р	9P
11	8	88
13	4	52
	$\Sigma f_i = 41 + P$	$\sum f_i x_i = 303 + 9p$

Mean=
$$\frac{\sum f_i x_i}{\sum f_i} = \frac{303 + 9P}{41 + P}$$

Butmean = 8(given)

$$\frac{303+9P}{41+p} = 8$$

$$\Rightarrow$$
 303 + 9p = 8(41+p)

$$\Rightarrow$$
 303 + 9p= 328 + 8p

$$\Rightarrow$$
 9p - 8p = 328 -303

.. the value of P=25

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