



Exercise 14E

Question 7:

Mean consumption of petrol for the first 7 months = 330 litres

Total consumption of petrol for the first 7 months = (330×7) litres = 2310 litres

Mean consumption of petrol for the next five 5 months = 270 litres

Total consumption of petrol for the next five 5 months = (270×5) = 1350 litres

Total consumption of petrol in one year

= $(2310 + 1350)$ litres

= 3660 litres.

\therefore Mean consumption of petrol = $3660/12$ = 305 litres per month

Question 8:

Mean of 15 numbers = 18

Total sum of 15 numbers = (18×15) = 270

Remaining numbers = $25 - 15$ = 10

Mean of 10 numbers = 13

Total sum of 10 numbers = (13×10) = 130

\therefore Total sum of 25 numbers = $(270 + 130)$ = 400

\therefore Mean of 25 numbers = $400/25$ = 16

Question 9:

Mean weight of 60 students = 52.75 kg

Sum of weight of 60 students = 60×52.75 kg

Mean weight of 25 students = 51

Sum of weight of 25 students = 25×51 kg

Remaining students = $60 - 25$ = 35

Total weight of the remaining 35 students

= Sum of weight of 60 students - Sum of weight of 25 students

= $(60 \times 52.75 - 25 \times 51)$ kg

= $(3165 - 1275)$ = 1890 kg

\therefore Mean weight of remaining students = $1890/35$ = 54 kg

***** END *****