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 x 7)liters = 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 x 5) = 1350 litres
Total consumption of petrol in one year
= (2310+1350) litres
= 3660 litres.
∴ Mean consumption of petrol = 3660/12 = 305 litres per month

Question 8:
Mean of 15 numbers = 18
Total sum of 15 numbers = (18x15)=270
Remaining numbers = 25 - 15 = 10
Mean of 10 numbers =13
Total sum of 10 numbers= (13 x 10) = 130
∴ Total sum of 25 numbers= (270+130) = 400
∴ Mean of 25 numbers = 400/25 = 16

Question 9:
Mean weight of 60 students = 52.75 kg
Sum of weight of 60 students = 60 x 52.75 kg
Mean weight of 25 students = 51
Sum of weight of 25 students = 25 x 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 x 52.75 - 25 x 51)kg
= (3165-1275) = 1890 kg
∴ Mean weight of remaining students = 1890/35 = 54 kg

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