Exercise 14D

Question 12:
Mean weight of the boys = 48 kg

$$\text{Therefore, Mean weight} = \frac{\text{Sum of the weight of six boys}}{6} = 48$$

Sum of the weight of 6 boys = (48 x 6)kg = 288kg
Sum of the weights of 5 boys= (51+45+49+46+44)kg = 235kg
Weight of the sixth boy=(sum of the weights of 6 boys) - (sum of the weights of 5 boys)
= (288-235) = 53kg.
∴ weight of the sixth boy = 53kg

Question 13:
Calculated mean marks of 50 students = 39
calculated sum of these marks= (39 x 50) = 1950
Corrected sum of these marks
= [1950 - (wrong number) + (correct number)]
= (1950-23+43) =1970
∴ correct mean = 1970/50 = 39.4

Question 14:
calculated mean of 100 items = 64
sum of 100 items, as calculated = (100 x 64) = 6400
Correct sum of these items = [6400 - (wrong items) + (correct items)]
= [6400-(26+9)+(36+90)]
= [6400-35+126]=6491
∴ Correct mean = 6491/100 = 64.91

Question 15:
Mean of 6 numbers = 23
Sum of 6 numbers = (23 x 6)=138
Again , mean of 5 numbers =20
Sum of 5 numbers= (20 x 5) =100
The excluded number = (sum of 6 numbers) - (sum of 5 numbers)
= (138 - 100) =38
∴ The excluded number=38.

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