

Exercise 14E

Question 14:

Mean of 11 numbers = 42

Total sum of 11 numbers = 42x11 = 462

Mean of the first 6 numbers = 37

Total sum of first 6 numbers = 37x6 = 222

Mean of the last 6 numbers = 46

Total sum of last 6 numbers = 6x46 = 276

- :. The 6th number= 276 + 222 462
- = 498 462 = 36
- :. The 6th number = 36

Question 15:

Mean weight of 25 students = 52kg

Total weight of 25 students = 52x25 kg=1300 kg

Mean of the first 13 students = 48 kg

Total weight of the first 13 students = 48x13 kg = 624kg

Mean of the last 13 students = 55 kg

Total weight of the last 13 students = 55x13 kg = 715 kg

- .. The weight of 13th student
- = Total weight of the first 13 students + Total weight of the last 13 students Total weight of 25 students
- = 624+715-1300 kg
- = 39 kg.

Therefore, the weight of 13th student is 39 kg.

Question 16:

Mean score of 25 observations = 80

Total score of 25 observations = 80x25 = 2000

Mean score of 55 observations = 60

Total score of 55 observations = 60x55 = 3300

Total no. of observations = 25+55=80 observations

- :. Total score = 2000+3300 = 5300
- .: Mean score = 5300/80 = 66.25

Question 17:

Average marks of 4 subjects = 50

Total marks of 4 subjects = 50x4 = 200

- \therefore 36 + 44 + 75 + x = 200
- \Rightarrow 155 + x = 200
- \Rightarrow x = 200 155 = 45
- \therefore The value of x = 45

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