

## 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 = 222Mean of the last 6 numbers = 46Total sum of last 6 numbers = 6x46 = 276  $\therefore$  The 6th number = 276 + 222 - 462= 498 - 462 = 36

# Question 15:

.: The 6th number = 36

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 = 50Total 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 \*\*\*\*\*\*\*\*