

Exercise 14E

Question 10:

The increase in the average of 10 oarsmen = 1.5 kg Total weight increased =(1.5x10) kg=15 kg Since the man weighing 58 kg has been replaced, Weight of the new man =(58+15)kg =73kg.

Question 11:

Mean of 8 numbers=35

 \therefore Total sum of 8 numbers = 35x8 = 280

Since One number is excluded, New mean = 35 - 3 = 32

 \therefore Total sum of 7 numbers = 32x7 = 224

the excluded number = Sum of 8 numbers - Sum of 7 numbers

= 280 - 224 = 56

Question 12:

Mean of 150 items = 60

Total Sum of 150 items = 150x60 = 9000

- :. Correct sum of items =[(sum of 150 items) (sum of wrong items)
- + (sum of right items)]
- = [9000 (52 + 8) + (152 + 88)]
- = [9000-(52+8)+(152+88)]
- = 9180
- \therefore Correct mean = 9180/150 = 61.2

Question 13:

Mean of 31 results=60

Total sum of 31 results = 31x60 = 1860

Mean of the first 16 results =16x58=928

Total sum of the first 16 results=16x58=928

Mean of the last 16 results=62

Total sum of the last 16 results=16x62=992

- \therefore The 16th result = 928 + 992 1860
- = 1920 1860 = 60
- \therefore The 16th result = 60.

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