

Exercise 14E

Question 18:

Mean monthly salary of 75 workers = Rs. 5680

So, Total monthly salary of 75 workers = Rs. 5680x75 = Rs. 426000

Mean monthly salary of 25 workers = Rs. 5400

So, Total monthly salary of 25 workers = Rs. 5400x25 = Rs. 135000

Mean monthly salary of 30 workers = Rs. 5700

So, Total monthly salary of 30 workers = Rs. 5700x30 = Rs. 171000

Remaining workers = 75 - 55 = 20 workers

Total salary of remaining 20 workers

=Rs. [426000 - (135000 + 171000)]

= Rs. [426000 - 306000]

=Rs. 120000

.. Mean salary of the remaining 20 workers= Rs. 120000/20

= Rs. 6000

Question 19:

Let the distance of mark from the staring point be x km.

Then , time taken by the ship reaching the marks= $\left(\frac{x}{15}\right)$ hours (since time = $\frac{distance}{x}$

Time taken by the ship reaching the starting point from the marks = $\left(\frac{x}{10}\right)$ hours Total time taken = $\frac{x}{15} + \frac{x}{10} = \frac{x}{6}$ hours

Total distance covered =x+x=2x km.

:: average speed of whole journey = 2x $\div \frac{x}{6} = \frac{2x \times 6}{x}$ = 12 km/hour

Question 20:

Total number of students = 50

Total number of girls = 50-40 = 10

Average weight of the class = 44 kg

Total weight of 50 students= 44x 50 kg = 2200kg

Average weight of 10 girls = 40 kg

Total weight of 10 girls = 40x10 kg = 400 kg

- \therefore Total weight of 40 boys = 2200-400 kg =1800 kg
- \therefore the average weight of the boys = 1800/40 = 45 kg

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