Ex — 10(A)

1. 1 dozen = 12 toys.

Cost of 40 toys is = ₹ 1024

∴ " " 1 toy is = ₹ $\dfrac{1024}{40}$

∴ " " 12 toys = ₹ $\dfrac{1024 \times \overset{3}{\cancel{12}}}{\cancel{40}_{10}}$ = ₹ $\dfrac{3072}{10}$ = ₹ 307·2

(Ans)

3. By ₹ 120 pencils can be bought = 50

∴ " ₹ 1 " " " " = $\dfrac{50}{120}$

∴ " ₹ 108 " " " " = $\dfrac{50 \times \overset{9}{\cancel{108}}}{\cancel{120}}$ = 45 pencils.

(Ans)

5. In 7 days a labourer earns ₹ 784

∴ In 1 day " " " ₹ $\dfrac{784}{7}$

∴ In 15 days " " " ₹ $\dfrac{\overset{112}{\cancel{784}} \times 15}{\cancel{7}}$ = ₹ 1680 (Ans)

7. In 36 hours a work is done by 15 men

∴ " 1 hour " " " " " (15 × 36) men

∴ In 20 hours " " " " " $\left(\dfrac{\overset{3}{\cancel{15}} \times 36}{\cancel{20}_{4}}\right)$ men = 27 men.

9. At 65 kmph I

In 48 minutes a journey is completed at a speed 65 km/hr

∴ In 1 " " " " " " " " " (65 × 48) "

∴ In 40 " " " " " " " " " $\dfrac{\overset{13}{\cancel{65}} \times \overset{6}{\cancel{48}}}{\cancel{40}_{8}}$

= 78 km/hr.

(Ans)

11. 5 men earns ₹ 700 per day

∴ 1 man ,, ₹ $\frac{\overset{140}{\cancel{700}}}{5}$ = ₹ 140 per day

7 women earn ₹ 700 per day

∴ 1 woman ,, ₹ $\frac{\overset{100}{\cancel{700}}}{7}$ = ₹ 100 ,, ,,

∴ 7 men and 11 women together earn = ₹ (7×140) + (11×100)

= ₹ (980 + 1100) = ₹ 2080 (Ans)

12. In 15 days ₹ 9000 is earned by 5 labourers

∴ ,, 1 day ₹ 9000 is earned by (5 × 15) ,,

∴ ,, 8 days ₹ 9000 is ,, ,, $\left(\frac{5 \times 15}{8}\right)$,,

∴ ,, 8 days ₹ 1 is ,, ,, $\left(\frac{5 \times 15}{8 \times 9000}\right)$,,

∴ ,, 8 ,, ₹ 6720 ,, ,, $\left(\frac{\cancel{8} \times \cancel{15} \times \overset{84}{\cancel{6720}}^{7}}{\cancel{8} \times \cancel{9000}}\right)$ labourers

= 7 labourers. (Ans).

13. A fort had provisions for 450 men for 80 days.

After 10 days 450 men had provisions for (80−10) = 70 days

∴ 1 man ,, ,, ,, (70 × 450) days

∴ (450 + 50) = 500 men ,, ,, ,, $\frac{70 \times \cancel{450}^{9}}{\cancel{500}}$ = 63 days.

(Ans).

15. 7 workers working 6 hours a day can build a wall in 12 days

∴ 1 worker ,, 6 ,, ,, ,, ,, ,, ,, ,, in (12×7) ,,

∴ 3 workers ,, 6 hours ,, ,, ,, ,, ,, ,, in $\left(\frac{12 \times 7}{3}\right)$,,

∴ 3 ,, ,, 1 hour ,, ,, ,, ,, ,, ,, in $\left(\frac{12 \times 7 \times 6}{3}\right)$,,

∴ 3 workers working 8 hours a day can build a wall in $\frac{\cancel{12} \times 7 \times \cancel{6}^{3}}{\cancel{8} \times \cancel{8} \, \cancel{x}}$ days

= 21 days. (Ans)

———— 0 ————