Q1) Ram can do a piece of work in 15 days while Chandan can do it in 25 days. Both work together and finish the work. In what ratio should the total earnings be divided between them?
1) 3:5 2) 2:5 3) 5:2 4) 5:3

Solution:

Work = LCM(15, 25) = 75 units
Work done in a day: Ram = 5 units/day Chandan = 3 units/day
As both work together and finish the work so, their earnings are in the ratio of work done by them i.e. 5:3

Q2) A, B and C can do a piece of work in 4, 6 and 10 days respectively. They finish the work together and earn Rs 310. What is the share of each.
1) Rs 150, Rs 100, Rs 60 2) Rs 140, Rs 110, Rs 60
3) Rs 160, Rs 90, Rs 60 4) Rs 150, Rs 110, Rs 50

Solution:

Work = LCM(4, 6, 10) = 60 units
Work done in a day: A = 15 units/day, B = 10 units/day, C = 6 units/day
Share of A = (15/31) × 310 = Rs 150
Share of B = (10/31) × 310 = Rs 100
Share of C = (6/31) × 310 = Rs 60

Q3) A, B and C contract to do a work for Rs 4200. A can do the work in 6 days, B in 10 days and C in 12 days. If they work together to do the work, what is the share of B?
1) Rs 2000 2) Rs 1200 3) Rs 1500 4) Rs 2500
Solution:

Work = LCM(6, 10, 12) = 60 units
Work done in a day: A = 10 units/day, B = 6 units/day, C = 5 units/day
Share of B = (6/21) × 4200 = Rs 1200

Q4) Suresh can do a work in 15 days. Suresh and Ramesh together do the same work in 10 days. I they are paid Rs 1500 for the work, how should the money be divided between them?
1) Rs 1000, Rs 500 2) Rs 700, Rs 800

3) Rs 1200, Rs 300 4) Rs 1100, Rs 400
Solution:

Work = LCM(15, 10) = 30 units
Work done in a day: Suresh = 2 units/day
Suresh + Ramesh = 3 units/day i.e. Ramesh = 1 unit/day
Share of Suresh = (2/3) × 1500 = Rs 1000
Share of Ramesh = (1/3) × 1500 = Rs 500

Q5) A and B contract to do a work together for Rs 300. A alone can do it in 8 days and B alone in 12 days. But with the help of C they finish it in 4 days. Find the share of C.
1) Rs 30 2) Rs 60 3) Rs 100 4) Rs 50
Solution:

Work = LCM(8, 12, 4) = 24 units
Work done in a day: A = 3 units/day, B = 2 units/day
A + B + C = 6 units/day i.e. C = 1 unit/day
Share of C = (1/6) × 300 = Rs 50

Q6) A, B and C undertake to do a piece of work for Rs 707. A and B together do 5/7 of the work and the rest is done by C alone. How much should C get?
1) Rs 202 2) Rs 200 3) Rs 102 4) Rs 150
Solution:

As A and B together do 5/7 of the work so, C does 2/7 of the work.
Share of C = (2/7) × 707 = Rs 202

Q7) Wages of 10 women for 5 days is Rs 1250. The daily wage of a man is twice that of a woman. How many men must work for 8 days to earn Rs 1600?
1) 5 men 2) 8 men 3) 4 men 4) 6 men
Solution:

Wages of 10 women for 5 days is Rs 1250
Wages of 1 woman for 5 days is Rs 125
Wages of 1 woman for a day is Rs 25
Wage of a man for a day is Rs 50
Wage of a man for 8 days is Rs 400

So, 4 men earn Rs 1600 in 8 days.

Q8) 5 men and 5 women earn Rs 660 in 3 days. 10 men and 20 women earn Rs 3500 in 5 days. In how many days can 6 men and 4 women earn Rs 1060.

1) 5 days 2) 10 days 3) 6 days 4) 12 days

Solution:

Wage of a man per day = Rs m
Wage of a woman per day = Rs w
5 men and 5 women earn Rs 660 in 3 days i.e. Rs 220 in a day
5m + 5w = 220 i.e. m + w = 44 – eq 1
10 men and 20 women earn Rs 3500 in 5 days i.e. Rs 700 in a day
10m + 20w = 700 i.e. m + 2w = 70 – eq 2
From equation 1, 2
w = 26, m = 18
6 men and 4 women earn 6×18 + 4×26 = Rs 212 in a day i.e. Rs 1060 in 5 days.

Q9) A, B and C together earn Rs 2700 in 18 days. A and C together earn Rs 940 in 10 days. B and C together earn Rs 1520 in 20 days. Find the daily earning of C.

1) Rs 20 2) Rs 40 3) Rs 15 4) Rs 10

Solution:

A + B + C = Rs 150/day
A + C = Rs 94/day
B + C = Rs 76/day
A + C + B + C = Rs 170/day
150 + C = 170 i.e. C = Rs 20/day