1. A can construct $\frac{1}{6}$ of a wall in $1\frac{1}{2}$ days.
B can construct $\frac{5}{10}$ of the wall in 5 days.
C can construct $\frac{5}{6}$ of the wall in $6\frac{2}{3}$ days.
If all three work together, in how much time will they construct $\frac{5}{6}$ of the wall?

(i) $2\frac{58}{121}$ days (ii) $2\frac{58}{123}$ days (iii) $2\frac{58}{119}$ days (iv) $2\frac{60}{121}$ days (v) $2\frac{56}{121}$ days

2. A sum of ₹258.00 will be given to do a work.
A and B can do it in $3\frac{3}{14}$ hr.
B and C can do in $2\frac{8}{11}$ hr. C and A can do in $3\frac{3}{5}$ hr.
How much A, B and C respectively will get if all three work together?

(i) (₹60,₹108,₹90) (ii) (₹90,₹60,₹108) (iii) (₹90,₹108,₹60) (iv) (₹108,₹90,₹60) (v) (₹60,₹90,₹108)

3. A certain number of men can do a work in 32 days.
If there were 21 men more, it would take 12 days less to complete the work.
How many men are required to complete the work in 40 days?

(i) 29 (ii) 25 (iii) 28 (iv) 31 (v) 27

4. 1 men and 4 women can do a piece of work in 24 days.
2 men and 1 women can do the same work in 40 days.
In how many days can 4 men and 4 women complete the same work?

(i) 18 days (ii) 15 days (iii) 16 days (iv) 12 days (v) 14 days

5. 20 men can do a work in 19 days working 5 hours a day.
In how many days can 7 men do the same work, working 4 hours a day?

(i) $68\frac{1}{5}$ days (ii) $67\frac{6}{7}$ days (iii) $67\frac{4}{7}$ days (iv) $67\frac{2}{3}$ days (v) $68\frac{1}{7}$ days

6. 4 men take 9 days to complete a work.
How much work is done by one man in one day?

(i) $\frac{1}{36}$ (ii) $\frac{1}{12}$ (iii) $\frac{1}{9}$ (iv) $(\frac{-1}{36})$ (v) $\frac{1}{4}$

7. A can do a work in 5 days and B can do the same work in 5 days.
If they work together, in how much time is the work completed?

(i) $3\frac{1}{2}$ days (ii) $2\frac{1}{4}$ days (iii) 3 days (iv) $1\frac{1}{2}$ days (v) $2\frac{1}{2}$ days

8. A and B can do a piece of work in 15 days and 15 days respectively. They work together for 5 days and then B leaves. In how many days the whole work is completed?

(i) 11 days (ii) 7 days (iii) 10 days (iv) 12 days (v) 9 days

9. A can do a piece of work in 7 hr, B can do the work in 8 hr and C in 5 hr respectively. In how much time can they do it together?

(i) $2\frac{16}{131}$ hr (ii) $2\frac{20}{131}$ hr (iii) $2\frac{18}{133}$ hr (iv) $2\frac{6}{43}$ hr (v) $2\frac{18}{131}$ hr

10. A and B can do a work in $3\frac{13}{19}$ hr, B and C can do it in $3\frac{1}{3}$ hr and C and A can do it in $5\frac{5}{6}$ hr. In how much time can each of them do it seperately?

(i) (14 hr, 5 hr, 10 hr) (ii) (15 hr, 6 hr, 10 hr) (iii) (15 hr, 5 hr, 10 hr) (iv) (14 hr, 6 hr, 10 hr)

(v) (14 hr, 5 hr, 11 hr)

11. A and B can do a work in 5 days, B and C can do in 9 days and C and A can do in 7 days. If all three work together, in how many days will the work be completed?

(i) $4\frac{58}{143}$ days (ii) $4\frac{60}{143}$ days (iii) $4\frac{2}{5}$ days (iv) $4\frac{56}{143}$ days (v) $4\frac{58}{141}$ days

12. A and B together can do a piece of work in $5\frac{23}{24}$ hr. They work together for 1 hr and then A leaves. B completes the remaining work in $9\frac{2}{13}$ hr. In how much time can each of them do the work seperately?

(i) (13 hr, 12 hr) (ii) (13 hr, 11 hr) (iii) (14 hr, 11 hr) (iv) (13 hr, 10 hr) (v) (12 hr, 11 hr)

13. Pipe A can fill a tank in 6 hr and pipe B can empty the full tank in 30 hr. If both the pipes are opened together, in how much time will the tank become full?

(i) 8 hr (ii) $7\frac{1}{4}$ hr (iii) $8\frac{1}{2}$ hr (iv) $7\frac{1}{2}$ hr (v) $6\frac{1}{2}$ hr

14. A and B can do a work in $6\frac{27}{28}$ days, B and C can do it in $6\frac{2}{3}$ days and C and A can do it in $6\frac{6}{25}$ days. In how much time can each of them do it seperately?

(i) (13 days, 15 days, 12 days) (ii) (14 days, 16 days, 12 days) (iii) (14 days, 15 days, 12 days)

(iv) (13 days, 15 days, 13 days) (v) (13 days, 16 days, 12 days)

15. A sum of ₹4696.00 will be given to do a work.
A and B can do it in $7\frac{7}{29}$ days.
B and C can do in $6\frac{27}{28}$ days. C and A can do in $6\frac{20}{27}$ days.
How much A, B and C respectively will get if all three work together?
(i) (₹1680,₹1456,₹1560) (ii) (₹1680,₹1560,₹1456) (iii) (₹1456,₹1680,₹1560) (iv) (₹1560,₹1456,₹1680)
(v) (₹1560,₹1680,₹1456)

16. Due to a leak at the bottom, pipe Y takes 5 hr to fill the tank.
The leak alone can empty the full tank in 20 hr.
In what time can pipe Y alone fill the tank when the leak is closed?
(i) 1 hr (ii) 7 hr (iii) 3 hr (iv) 4 hr (v) 5 hr

17. A can do $\frac{4}{6}$ of a work in $8\frac{2}{3}$ hr.
He works for 6 hr when B joins him.
They work together and complete the work in $1\frac{17}{18}$ hr.
In how much time, B alone can do the work?
(i) 5 hr (ii) 4 hr (iii) 3 hr (iv) 7 hr (v) 6 hr

18. A, B, C, D, and E can do a piece of work in
14 hr, 8 hr, 11 hr, 12 hr and 10 hr respectively.
Who has the greatest capacity to do work?
(i) A (ii) B (iii) C (iv) E (v) D

19. A and B can do a work in 3 days and 5 days respectively.
They together undertook to do a piece of work for ₹1600.00.
What is the share of B?
(i) ₹601.00 (ii) ₹600.00 (iii) ₹998.00 (iv) ₹1000.00 (v) ₹599.00

20. A, B and C together can do a work in $1\frac{1}{9}$ days.
If A and C can do the work in 2 days and 5 days respectively,
in how many days can B alone do the work?
(i) 3 days (ii) 8 days (iii) 6 days (iv) 4 days (v) 5 days

21. A and B together can do a piece of work in 6 days.
They work together for 2 days and then A leaves.
B completes the remaining work in 8 days.
In how much time can each of them do the work seperately?
(i) (12 days, 11 days) (ii) (13 days, 12 days) (iii) (12 days, 13 days) (iv) (11 days, 12 days)
(v) (12 days, 12 days)

22. A can do $\frac{2}{7}$ of a work in $1\frac{5}{7}$ days.
He works for 3 days when B joins him.
They work together and complete the work in $2\frac{1}{19}$ days.
In how much time, B alone can do the work?
(i) 14 days (ii) 13 days (iii) 16 days (iv) 11 days (v) 12 days

23. Two pipes can fill a tank in 6 min and 20 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank becomes full in $16\frac{2}{3}$ min from the time when both pipes are opened. For how much time was first pipe open?
(i) 1 min (ii) 4 min (iii) 0 min (iv) -1 min (v) 2 min

24. A, B and C can together do a piece of work in $2\frac{184}{223}$ hr.
B and C can do it in $3\frac{15}{16}$ hr.
C alone can do it in 7 hr.
In how much time A and C can do the work together?
(i) $4\frac{2}{17}$ hr (ii) $4\frac{2}{19}$ hr (iii) 4 hr (iv) $4\frac{2}{15}$ hr (v) $4\frac{4}{17}$ hr

25. A can construct $\frac{1}{5}$ of a wall in 2 hr.
B can construct $\frac{1}{7}$ of the wall in $\frac{5}{7}$ hr.
C can construct $\frac{1}{6}$ of the wall in $1\frac{1}{3}$ hr.
If all three work together, in how much time will they construct $\frac{4}{7}$ of the wall?
(i) $1\frac{39}{119}$ hr (ii) $1\frac{43}{119}$ hr (iii) $1\frac{41}{119}$ hr (iv) $1\frac{41}{121}$ hr (v) $1\frac{41}{117}$ hr

Assignment Key

1) (i)	2) (i)	3) (iii)	4) (ii)	5) (ii)	6) (i)
7) (v)	8) (iii)	9) (v)	10) (i)	11) (i)	12) (ii)
13) (iv)	14) (i)	15) (iv)	16) (iv)	17) (i)	18) (ii)
19) (ii)	20) (v)	21) (v)	22) (ii)	23) (i)	24) (i)
25) (iii)					