EduSahara™ Assignment

Name : Working Capacity Problems

Chapter : Direct and Inverse Proportions

Grade : SSC Grade VIII

1. A can do a work in 6 days and B can do the same work in 5 days.
If they work together, in how much time is the work completed?

(i) $2\frac{8}{11}$ days (ii) $2\frac{10}{11}$ days (iii) $2\frac{8}{13}$ days (iv) $2\frac{6}{11}$ days (v) $2\frac{8}{9}$ days

2. A can do a work in 4 days. With the help of B, A can do the same work in $1\frac{5}{7}$ days. In how many days can B alone do the work?

(i) 1 day (ii) 4 days (iii) 3 days (iv) 6 days (v) 2 days

3. A and B can do a work in 7 days, B and C can do in 6 days and C and A can do in 9 days. If all three work together, in how many days will the work be completed?

(i) $4\frac{8}{11}$ days (ii) $4\frac{40}{51}$ days (iii) $4\frac{38}{53}$ days (iv) $4\frac{40}{53}$ days (v) $4\frac{42}{53}$ days

4. A and B can do a piece of work in 10 days and 15 days respectively. They work together for 4 days and then B leaves. In how many days the whole work is completed?

(i) $6\frac{2}{3}$ days (ii) $7\frac{1}{3}$ days (iii) 8 days (iv) $7\frac{1}{5}$ days

5. 3 men take 8 days to complete a work.
How much work is done by one man in one day?

(i) $(\frac{-1}{24})$ (ii) $\frac{1}{8}$ (iii) $\frac{1}{3}$ (iv) $\frac{1}{24}$

6. 20 men can do a work in 9 days working 10 hours a day.
In how many days can 20 men do the same work, working 6 hours a day?

(i) 13 days (ii) 14 days (iii) 16 days (iv) 15 days (v) 18 days

7. 5 men and 1 women can do a piece of work in 16 days.
4 men and 5 women can do the same work in 10 days.
In how many days can 5 men and 5 women complete the same work?

(i) $9\frac{1}{37}$ days (ii) $9\frac{3}{35}$ days (iii) $9\frac{5}{37}$ days (iv) $9\frac{3}{37}$ days (v) $9\frac{1}{13}$ days

8. 2 skilled men can do a work in 6 days.
5 unskilled men can do the same work in 7 days.
In how many days can 6 skilled and 9 unskilled men do the same work?

(i) $1\frac{15}{53}$ days (ii) $1\frac{17}{53}$ days (iii) $1\frac{19}{53}$ days (iv) $1\frac{17}{55}$ days (v) $1\frac{1}{3}$ days

9. A, B and C together can do a work in $\frac{4}{5}$ days.
If A and C can do the work in 2 days and 4 days respectively,
in how many days can B alone do the work?

(i) 3 days (ii) 0 days (iii) 1 day (iv) 5 days (v) 2 days

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10. A certain number of men can do a work in 6 days.
If there were 28 men less, it would take 21 days more to complete the work.
How many men are required to complete the work in 18 days?

(i) 15 (ii) 11 (iii) 12 (iv) 13 (v) 10

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11. A and B can do a work in 4 days and 2 days respectively.
They together undertook to do a piece of work for ₹1800.00.
What is the share of B?

(i) ₹600.00 (ii) ₹598.00 (iii) ₹1199.00 (iv) ₹1200.00 (v) ₹1201.00

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12. A and B can do a work in 17 days and 11 days respectively.
If they work on alternate days and A begins the work,
in how many days can it be completed?

(i) 15 days (ii) 11 days (iii) 13 days (iv) 16 days (v) 14 days

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13. Person P is twice as good a workman as Person Q.
They can do a work together in $4\frac{2}{3}$ days.
In how many days Q alone can do the work?

(i) 12 days (ii) 13 days (iii) 15 days (iv) 14 days (v) 17 days

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14. P and Q can do together a piece of work in $3\frac{15}{16}$ days.
After they have worked together for 2 days, P stops.
Q completes the remaining work in $4\frac{3}{7}$ days.
In how many days can Q alone do the work?

(i) 12 days (ii) 8 days (iii) 6 days (iv) 9 days (v) 10 days

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15. A can do a piece of work in 13 hr and B in 10 hr.
A does the work for 2 hr before B join A to work together.
Again after 2 hr C joins both A and B to complete the work in $1\frac{99}{157}$ hr.
In how much time C alone can do the work?

(i) 11 hr (ii) 5 hr (iii) 9 hr (iv) 8 hr (v) 7 hr

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16. A, B, C, D, and E can do a piece of work in
14 hr, 13 hr, 8 hr, 10 hr and 6 hr respectively.
Who has the greatest capacity to do work?

(i) C (ii) E (iii) D (iv) B (v) A

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17. A, B, C, D, and E can do a piece of work in
9 days, 7 days, 13 days, 10 days and 12 days respectively.
Who has the greatest capacity to do work?

(i) C (ii) B (iii) E (iv) D (v) A

18. A and B can do a work in $5\frac{23}{24}$ hr, B and C can do it in $6\frac{4}{25}$ hr and C and A can do it in $6\frac{20}{27}$ hr. In how much time can each of them do it seperately?

(i) (13 hr, 11 hr, 14 hr) (ii) (13 hr, 11 hr, 15 hr) (iii) (13 hr, 12 hr, 14 hr) (iv) (14 hr, 11 hr, 14 hr) (v) (14 hr, 12 hr, 14 hr)

19. A and B can do a work in $4\frac{1}{2}$ days, B and C can do it in $3\frac{3}{5}$ days and C and A can do it in $3\frac{3}{5}$ days. In how much time can each of them do it seperately?

(i) (10 days, 10 days, 6 days) (ii) (10 days, 9 days, 6 days) (iii) (9 days, 9 days, 7 days) (iv) (9 days, 10 days, 6 days) (v) (9 days, 9 days, 6 days)

20. A can do a piece of work in 11 hr, B can do the work in 6 hr and C in 7 hr respectively. In how much time can they do it together?

(i) $2\frac{92}{185}$ hr (ii) $2\frac{92}{183}$ hr (iii) $2\frac{92}{187}$ hr (iv) $2\frac{18}{37}$ hr (v) $2\frac{94}{185}$ hr

21. A can do a piece of work in 9 days, B can do the work in 10 days and C in 10 days respectively. In how much time can they do it together?

(i) $3\frac{3}{16}$ days (ii) $3\frac{1}{4}$ days (iii) $3\frac{5}{14}$ days (iv) $3\frac{3}{14}$ days (v) $3\frac{1}{14}$ days

22. A and B together can do a piece of work in $4\frac{17}{22}$ hr. They work together for 1 hr and then A leaves. B completes the remaining work in $5\frac{8}{15}$ hr. In how much time can each of them do the work seperately?

(i) (14 hr, 7 hr) (ii) (16 hr, 7 hr) (iii) (15 hr, 7 hr) (iv) (15 hr, 8 hr) (v) (15 hr, 6 hr)

23. A and B together can do a piece of work in $4\frac{4}{9}$ days. They work together for 1 day and then A leaves. B completes the remaining work in $7\frac{3}{4}$ days. In how much time can each of them do the work seperately?

(i) (8 days, 9 days) (ii) (8 days, 11 days) (iii) (7 days, 10 days) (iv) (8 days, 10 days) (v) (9 days, 10 days)

24. A can do $\frac{2}{9}$ of a work in $2\frac{4}{9}$ hr. He works for 3 hr when B joins him. They work together and complete the work in $4\frac{4}{23}$ hr. In how much time, B alone can do the work?

(i) 9 hr (ii) 13 hr (iii) 12 hr (iv) 11 hr (v) 14 hr

25. A can do $\frac{6}{12}$ of a work in $5\frac{1}{2}$ days.
He works for 3 days when B joins him.
They work together and complete the work in $4\frac{4}{23}$ days.
In how much time, B alone can do the work?
(i) 14 days (ii) 13 days (iii) 10 days (iv) 12 days (v) 11 days

26. A can construct $\frac{3}{5}$ of a wall in $5\frac{2}{5}$ hr.
B can construct $\frac{9}{10}$ of the wall in $8\frac{1}{10}$ hr.
C can construct $\frac{4}{6}$ of the wall in 4 hr.
If all three work together, in how much time will they construct $\frac{6}{7}$ of the wall?
(i) $2\frac{10}{49}$ hr (ii) $2\frac{8}{49}$ hr (iii) $2\frac{12}{49}$ hr (iv) $2\frac{10}{47}$ hr (v) $2\frac{10}{51}$ hr

27. A can construct $\frac{2}{6}$ of a wall in $2\frac{1}{3}$ days.
B can construct $\frac{8}{9}$ of the wall in $5\frac{1}{3}$ days.
C can construct $\frac{3}{8}$ of the wall in 3 days.
If all three work together, in how much time will they construct $\frac{4}{10}$ of the wall?
(i) $\frac{112}{121}$ days (ii) $\frac{336}{367}$ days (iii) $\frac{336}{365}$ days (iv) $\frac{334}{365}$ days (v) $\frac{338}{365}$ days

28. A, B and C can together do a piece of work in $2\frac{10}{23}$ hr.
B and C can do it in $3\frac{11}{15}$ hr.
C alone can do it in 7 hr.
In how much time A and C can do the work together?
(i) $3\frac{1}{2}$ hr (ii) $4\frac{1}{2}$ hr (iii) 4 hr (iv) $3\frac{1}{4}$ hr (v) $2\frac{1}{2}$ hr

29. A, B and C can together do a piece of work in $2\frac{184}{223}$ days.
B and C can do it in $4\frac{2}{17}$ days.
C alone can do it in 10 days.
In how much time A and C can do the work together?
(i) $4\frac{14}{17}$ days (ii) $4\frac{14}{19}$ days (iii) $4\frac{12}{19}$ days (iv) $4\frac{16}{19}$ days (v) $4\frac{2}{3}$ days

30. A sum of ₹1686.00 will be given to do a work.

A and B can do it in $5\frac{5}{23}$ hr.

B and C can do in $3\frac{11}{15}$ hr. C and A can do in $4\frac{17}{22}$ hr.

How much A, B and C respectively will get if all three work together?

(i) (₹336,₹720,₹630) (ii) (₹336,₹630,₹720) (iii) (₹720,₹336,₹630) (iv) (₹630,₹720,₹336)

(v) (₹720,₹630,₹336)

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31. A sum of ₹8805.00 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) (₹3150,₹2730,₹2925) (ii) (₹2730,₹3150,₹2925) (iii) (₹2925,₹2730,₹3150) (iv) (₹3150,₹2925,₹2730)

(v) (₹2925,₹3150,₹2730)

Assignment Key

1) (i)	2) (iii)	3) (iv)	4) (ii)	5) (iv)	6) (iv)
7) (iv)	8) (ii)	9) (v)	10) (iii)	11) (iv)	12) (v)
13) (iv)	14) (iv)	15) (iv)	16) (ii)	17) (ii)	18) (i)
19) (v)	20) (i)	21) (iv)	22) (iii)	23) (iv)	24) (iii)
25) (iv)	26) (i)	27) (iii)	28) (i)	29) (ii)	30) (ii)
31) (iii)					