# EduSahara™ Learning Center Assignment

**Grade : Class VIII, SSC**
**Chapter : Direct and Inverse Proportions**
**Name : Working Capacity Problems**
**Licensed To : Teachers and Students for non−commercial use**

---

1. A can do a work in 8 days and B can do the same work in 2 days .
If they work together, in how much time is the work completed?

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

---

2. A can do a work in 2 days . With the help of B, A can do the same work in $1\frac{5}{9}$ days . In how many days can B alone do the work?

(i) 10 days (ii) 6 days (iii) 7 days (iv) 8 days (v) 4 days

---

3. 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 5 days . If all three work together, in how many days will the work be completed?

(i) $3\frac{19}{23}$ days (ii) $3\frac{21}{25}$ days (iii) 4 days (iv) $3\frac{21}{23}$ days

---

4. A and B can do a piece of work in 11 days and 16 days respectively. They work together for 1 day and then B leaves.
In how many days the whole work is completed?

(i) $10\frac{5}{18}$ days (ii) $10\frac{3}{16}$ days (iii) $10\frac{5}{14}$ days (iv) $10\frac{7}{16}$ days (v) $10\frac{5}{16}$ days

---

5. 9 men take 4 days to complete a work.
How much work is done by one man in one day?

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

---

6. 5 men can do a work in 14 days working 7 hours a day.
In how many days can 16 men do the same work, working 8 hours a day?

(i) $3\frac{53}{64}$ days (ii) $3\frac{55}{64}$ days (iii) $3\frac{53}{62}$ days (iv) $3\frac{53}{66}$ days (v) $3\frac{51}{64}$ days

---

5 men and 2 women can do a piece of work in 15 days.

7. 3 men and 25 women can do the same work in 10 days.

In how many days can 5 men and 2 women complete the same work?

(i) 16 days (ii) 17 days (iii) 15 days (iv) 13 days (v) 14 days

---

6 skilled men can do a work in 7 days .

8. 6 unskilled men can do the same work in 9 days .

In how many days can 5 skilled and 3 unskilled men do the same work?

(i) $5\frac{8}{11}$ days (ii) $5\frac{8}{9}$ days (iii) $5\frac{8}{13}$ days (iv) $5\frac{6}{11}$ days (v) $5\frac{10}{11}$ days

---

A, B and C together can do a work in $\frac{6}{7}$ days .

9. If A and C can do the work in 3 days and 3 days respectively,

in how many days can B alone do the work?

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

---

A certain number of men can do a work in 12 days .

10. If there were 9 men less , it would take 2 days more to complete the work.

How many men are required to complete the work in 42 days ?

(i) 17 (ii) 15 (iii) 18 (iv) 19 (v) 20

---

A and B can do a work in 5 days and 6 days respectively.

11. They together undertook to do a piece of work for ₹5500.00

What is the share of B?

(i) ₹2500.00 (ii) ₹2499.00 (iii) ₹2998.00 (iv) ₹2501.00 (v) ₹3000.00

---

A and B can do a work in 16 days and 27 days respectively.

12. If they work on alternate days and A begins the work,

in how many days can it be completed?

(i) 24 days (ii) 20 days (iii) 22 days (iv) 21 days (v) 19 days

---

Person P is five times as good a workman as Person Q.

13. They can do a work together in $2\frac{1}{2}$ days .

In how many days Q alone can do the work?

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

---

P and Q can do together a piece of work in $3\frac{11}{15}$ days .

After they have worked together for 2 days , P stops.

14. Q completes the remaining work in $3\frac{1}{4}$ days .

In how many days can Q alone do the work?

(i) 8 days (ii) 5 days (iii) 7 days (iv) 9 days (v) 6 days

---

A can do a piece of work in 12 hrs and B in 10 hrs .

A does the work for 6 hrs before B join A to work together.

15. Again after 2 hrs C joins both A and B to complete the work in $\frac{56}{137}$ hrs .

In how much time C alone can do the work?

(i) 7 hrs (ii) 6 hrs (iii) 4 hrs (iv) 8 hrs (v) 10 hrs

---

A, B, C, D, and E can do a piece of work in

16. 10 hrs , 6 hrs , 13 hrs , 12 hrs and 14 hrs respectively.

Who has the greatest capacity to do work?

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

---

A, B, C, D, and E can do a piece of work in

17. 15 days , 7 days , 6 days , 14 days and 11 days respectively.

Who has the greatest capacity to do work?

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

---

A and B can do a work in $4\frac{8}{19}$ hrs , B and C can do it in $4\frac{8}{19}$ hrs

18. and C and A can do it in $3\frac{1}{2}$ hrs . In how much time can

each of them do it seperately?

(i) ( 7 hrs , 12 hrs , 7 hrs ) (ii) ( 7 hrs , 12 hrs , 8 hrs )

(iii) ( 8 hrs , 13 hrs , 7 hrs ) (iv) ( 8 hrs , 12 hrs , 7 hrs )

(v) ( 7 hrs , 13 hrs , 7 hrs )

---

19. A and B can do a work in $3\frac{1}{13}$ days , B and C can do it in $4\frac{4}{9}$ days and C and A can do it in $3\frac{1}{3}$ days . In how much time can each of them do it seperately?

(i) ( 5 days , 8 days , 11 days ) (ii) ( 6 days , 9 days , 10 days )

(iii) ( 5 days , 9 days , 10 days ) (iv) ( 6 days , 8 days , 10 days )

(v) ( 5 days , 8 days , 10 days )

---

20. A can do a piece of work in 5 hrs , B can do the work in 8 hrs and C in 10 hrs respectively. In how much time can they do it together?

(i) $2\frac{2}{5}$ hrs (ii) $2\frac{4}{17}$ hrs (iii) $2\frac{6}{17}$ hrs (iv) $2\frac{6}{19}$ hrs (v) $2\frac{8}{17}$ hrs

---

21. A can do a piece of work in 10 days , B can do the work in 10 days and C in 14 days respectively. In how much time can they do it together?

(i) $3\frac{13}{17}$ days (ii) $3\frac{15}{19}$ days (iii) $3\frac{13}{21}$ days (iv) $3\frac{13}{19}$ days (v) $3\frac{11}{19}$ days

---

22. A and B together can do a piece of work in $7\frac{7}{29}$ hrs . They work together for 3 hrs and then A leaves. B completes the remaining work in $8\frac{11}{14}$ hrs . In how much time can each of them do the work seperately?

(i) ( 14 hrs , 14 hrs ) (ii) ( 13 hrs , 15 hrs ) (iii) ( 14 hrs , 16 hrs )

(iv) ( 15 hrs , 15 hrs ) (v) ( 14 hrs , 15 hrs )

---

23. A and B together can do a piece of work in $3\frac{11}{18}$ days . They work together for 1 day and then A leaves. B completes the remaining work in $3\frac{8}{13}$ days . In how much time can each of them do the work seperately?

(i) ( 13 days , 5 days ) (ii) ( 14 days , 5 days ) (iii) ( 12 days , 5 days )
(iv) ( 13 days , 6 days ) (v) ( 13 days , 4 days )

---

24. A can do $\frac{8}{12}$ of a work in $7\frac{1}{3}$ hrs .
He works for 5 hrs when B joins him.
They work together and complete the work in $2\frac{2}{17}$ hrs .
In how much time, B alone can do the work?

(i) 9 hrs (ii) 5 hrs (iii) 6 hrs (iv) 4 hrs (v) 7 hrs

---

25. A can do $\frac{8}{15}$ of a work in $2\frac{2}{3}$ days .
He works for 2 days when B joins him.
They work together and complete the work in $2\frac{1}{4}$ days .
In how much time, B alone can do the work?

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

---

26. A can construct $\frac{4}{7}$ of a wall in 4 hrs .
B can construct $\frac{3}{6}$ of the wall in 3 hrs .
C can construct $\frac{2}{8}$ of the wall in $1\frac{3}{4}$ hrs .
If all three work together, in how much time will they construct $\frac{1}{7}$ of the wall?

(i) $\frac{4}{19}$ hrs (ii) $\frac{6}{17}$ hrs (iii) $\frac{6}{19}$ hrs (iv) $\frac{2}{7}$ hrs (v) $\frac{8}{19}$ hrs

---

27. A can construct $\frac{3}{7}$ of a wall in $2\frac{4}{7}$ days .
B can construct $\frac{1}{7}$ of the wall in $\frac{5}{7}$ days .
C can construct $\frac{4}{6}$ of the wall in 6 days .
If all three work together, in how much time will they construct $\frac{2}{8}$ of the wall?

(i) $\frac{45}{88}$ days (ii) $\frac{45}{86}$ days (iii) $\frac{1}{2}$ days (iv) $\frac{47}{86}$ days (v) $\frac{15}{28}$ days

---

28. A, B and C can together do a piece of work in $2\frac{20}{53}$ hrs .
B and C can do it in $3\frac{3}{13}$ hrs .
C alone can do it in $7$ hrs .
In how much time A and C can do the work together?
(i) $4\frac{1}{16}$ hrs (ii) $3\frac{13}{16}$ hrs (iii) $3\frac{5}{6}$ hrs (iv) $4\frac{1}{14}$ hrs (v) $3\frac{15}{16}$ hrs

---

29. A, B and C can together do a piece of work in $2\frac{20}{53}$ days .
B and C can do it in $3\frac{15}{16}$ days .
C alone can do it in $7$ days .
In how much time A and C can do the work together?
(i) $3\frac{3}{13}$ days (ii) $3\frac{1}{13}$ days (iii) $3\frac{1}{5}$ days (iv) $3\frac{3}{11}$ days (v) $3\frac{5}{13}$ days

---

30. A sum of ₹2899.00 will be given to do a work.
A and B can do it in $3\frac{15}{16}$ hrs .
B and C can do in $4\frac{14}{19}$ hrs . C and A can do in $4\frac{2}{17}$ hrs .
How much A, B and C respectively will get if all three work together?
(i) ( ₹1170 , ₹910 , ₹819 )
(ii) ( ₹1170 , ₹819 , ₹910 )
(iii) ( ₹819 , ₹910 , ₹1170 )
(iv) ( ₹910 , ₹819 , ₹1170 )
(v) ( ₹819 , ₹1170 , ₹910 )

---

31. A sum of ₹476.00 will be given to do a work.
A and B can do it in $4\frac{14}{19}$ days .
B and C can do in $3\frac{3}{5}$ days . C and A can do in $3\frac{3}{4}$ days .
How much A, B and C respectively will get if all three work together?
(i) ( ₹140 , ₹210 , ₹126 )
(ii) ( ₹126 , ₹140 , ₹210 )
(iii) ( ₹210 , ₹126 , ₹140 )
(iv) ( ₹126 , ₹210 , ₹140 )
(v) ( ₹210 , ₹140 , ₹126 )

---

## Assignment Key

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