EduSahara™ Assignment

Name : Time and Work

Chapter : Time and Work

Grade : ICSE Grade VIII



1. A can do a work in 3 days and B can do the same work in 3 days.
If they work together, in how much time is the work completed?

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

2. A can do a work in 8 days. With the help of B, A can do the same work in 4 days. In how many days can B alone do the work?

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

3. A and B can do a work in 9 days, B and C can do in 7 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) $5\frac{1}{25}$ days (ii) $4\frac{24}{25}$ days (iii) $5\frac{1}{27}$ days (iv) $5\frac{1}{23}$ days (v) $5\frac{3}{25}$ days

4. A and B can do a piece of work in 19 days and 18 days respectively. They work together for 8 days and then B leaves. In how many days the whole work is completed?

(i) $10\frac{5}{11}$ days (ii) $10\frac{5}{9}$ days (iii) $10\frac{1}{3}$ days (iv) $10\frac{5}{7}$ days (v) $10\frac{7}{9}$ days

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

(i) $(\frac{-1}{9})$ (ii) $\frac{1}{9}$ (iii) $\frac{1}{3}$

6. Pipe A can fill a tank in 9 hr and pipe B can empty the full tank in 54 hr. If both the pipes are opened together, in how much time will the tank become full?

(i) $10\frac{4}{7}$ hr (ii) $11\frac{1}{5}$ hr (iii) $10\frac{2}{5}$ hr (iv) $10\frac{4}{5}$ hr (v) $11\frac{1}{3}$ hr

7. Two pipes can fill a tank in 9 min and 24 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank becomes full in $13\frac{1}{3}$ min from the time when both pipes are opened. For how much time was first pipe open?

(i) 4 min (ii) 5 min (iii) 3 min (iv) 2 min (v) 6 min

8. Due to a leak at the bottom, pipe Y takes $2\frac{2}{5}$ hr to fill the tank. The leak alone can empty the full tank in 12 hr. In what time can pipe Y alone fill the tank when the leak is closed?

(i) 0 hr (ii) 3 hr (iii) 4 hr (iv) 1 hr (v) 2 hr

9. 13 men can do a work in 14 days working 9 hours a day.
In how many days can 15 men do the same work, working 3 hours a day?

(i) $36\frac{2}{7}$ days (ii) $36\frac{4}{5}$ days (iii) $36\frac{2}{5}$ days (iv) 36 days (v) $36\frac{2}{3}$ days

10. 5 men and 1 women can do a piece of work in 24 days.
4 men and 5 women can do the same work in 6 days.
In how many days can 5 men and 2 women complete the same work?

(i) $13\frac{23}{35}$ days (ii) $13\frac{23}{39}$ days (iii) $13\frac{25}{37}$ days (iv) $13\frac{21}{37}$ days (v) $13\frac{23}{37}$ days

11. 2 skilled men can do a work in 7 days .
9 unskilled men can do the same work in 6 days .
In how many days can 4 skilled and 5 unskilled men do the same work?

(i) $2\frac{90}{143}$ days (ii) $2\frac{92}{145}$ days (iii) $2\frac{92}{143}$ days (iv) $2\frac{94}{143}$ days (v) $2\frac{92}{141}$ days

12. A, B and C together can do a work in $1\frac{4}{11}$ days .
If A and C can do the work in 3 days and 5 days respectively,
in how many days can B alone do the work?

(i) 8 days (ii) 6 days (iii) 2 days (iv) 4 days (v) 5 days

13. A certain number of men can do a work in 54 days .
If there were 8 men more , it would take 12 days less to complete the work.
How many men are required to complete the work in 63 days ?

(i) 23 (ii) 25 (iii) 22 (iv) 27 (v) 24

14. A and B can do a work in 6 days and 2 days respectively.
They together undertook to do a piece of work for ₹5600.00 .
What is the share of B?

(i) ₹1400.00 (ii) ₹1398.00 (iii) ₹4199.00 (iv) ₹4201.00 (v) ₹4200.00

15. A and B can do a work in 24 days and 15 days respectively.
If they work on alternate days and A begins the work,
in how many days can it be completed?

(i) 18 days (ii) 20 days (iii) 19 days (iv) 21 days (v) 16 days

16. Person P is eight times as good a workman as Person Q.
They can do a work together in $7\frac{1}{9}$ days .
In how many days Q alone can do the work?

(i) 61 days (ii) 66 days (iii) 65 days (iv) 64 days (v) 63 days

17. 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.
Q completes the remaining work in $3\frac{1}{4}$ days.
In how many days can Q alone do the work?
(i) 5 days (ii) 8 days (iii) 6 days (iv) 7 days (v) 9 days

18. A can do a piece of work in 9 hr and B in 8 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 $\frac{154}{191}$ hr.
In how much time C alone can do the work?
(i) 5 hr (ii) 7 hr (iii) 10 hr (iv) 6 hr (v) 8 hr

19. A, B, C, D, and E can do a piece of work in
13 hr, 5 hr, 12 hr, 8 hr and 10 hr respectively.
Who has the greatest capacity to do work?
(i) A (ii) E (iii) C (iv) B (v) D

20. A, B, C, D, and E can do a piece of work in
6 days, 7 days, 9 days, 10 days and 12 days respectively.
Who has the greatest capacity to do work?
(i) D (ii) B (iii) A (iv) C (v) E

21. A and B can do a work in $5\frac{5}{6}$ hr, B and C can do it in $3\frac{3}{4}$ hr
and C and A can do it in $4\frac{1}{5}$ hr. In how much time can
each of them do it seperately?
(i) (14 hr, 10 hr, 6 hr) (ii) (15 hr, 10 hr, 6 hr) (iii) (15 hr, 11 hr, 6 hr) (iv) (14 hr, 10 hr, 7 hr)
(v) (14 hr, 11 hr, 6 hr)

22. A can do a piece of work in 10 hr, B can do the work in 13 hr
and C in 6 hr respectively. In how much time can they do it together?
(i) $2\frac{59}{67}$ hr (ii) $2\frac{61}{69}$ hr (iii) $2\frac{61}{67}$ hr (iv) $2\frac{61}{65}$ hr (v) $2\frac{63}{67}$ hr

23. A and B together can do a piece of work in $5\frac{5}{6}$ hr.
They work together for 1 hr and then A leaves.
B completes the remaining work in $8\frac{2}{7}$ hr.
In how much time can each of them do the work seperately?
(i) (14 hr, 9 hr) (ii) (13 hr, 10 hr) (iii) (14 hr, 10 hr) (iv) (14 hr, 11 hr) (v) (15 hr, 10 hr)

24. A can do $\frac{1}{7}$ of a work in $1\frac{1}{7}$ hr.

He works for 4 hr when B joins him.

They work together and complete the work in $2\frac{2}{9}$ hr.

In how much time, B alone can do the work?

(i) 13 hr (ii) 10 hr (iii) 8 hr (iv) 9 hr (v) 11 hr

25. A can construct $\frac{3}{9}$ of a wall in 2 hr.

B can construct $\frac{4}{6}$ of the wall in 4 hr.

C can construct $\frac{4}{7}$ of the wall in $2\frac{6}{7}$ hr.

If all three work together, in how much time will they construct $\frac{8}{9}$ of the wall?

(i) $1\frac{2}{3}$ hr (ii) $1\frac{2}{5}$ hr (iii) 1 hr (iv) $2\frac{1}{3}$ hr (v) 3 hr

26. A, B and C can together do a piece of work in $1\frac{103}{107}$ hr.

B and C can do it in $3\frac{3}{13}$ hr.

C alone can do it in 7 hr.

In how much time A and C can do the work together?

(i) $3\frac{1}{10}$ hr (ii) $2\frac{11}{12}$ hr (iii) $2\frac{3}{4}$ hr (iv) $3\frac{1}{12}$ hr (v) $2\frac{11}{14}$ hr

27. A sum of ₹88.00 will be given to do a work.

A and B can do it in $3\frac{1}{3}$ hr.

B and C can do in $3\frac{3}{4}$ hr. C and A can do in 6 hr.

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

(i) (₹16,₹48,₹24) (ii) (₹16,₹24,₹48) (iii) (₹24,₹16,₹48) (iv) (₹24,₹48,₹16) (v) (₹48,₹16,₹24)

## Assignment Key

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