EduSahara™ Assignment

Name : Time and Work

Chapter : Time and Work

Grade : ICSE Grade VIII

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

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

2. A can do a work in 4 days . With the help of B, A can do the same work in $1\frac{1}{3}$ days . In how many days can B alone do the work?

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

3. A and B can do a work in 5 days , B and C can do in 8 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) $4\frac{36}{133}$ days (ii) $4\frac{34}{131}$ days (iii) $4\frac{36}{131}$ days (iv) $4\frac{38}{131}$ days (v) $4\frac{12}{43}$ days

4. A and B can do a piece of work in 13 days and 10 days respectively.
They work together for 1 day and then B leaves.
In how many days the whole work is completed?

(i) $11\frac{7}{8}$ days (ii) $11\frac{7}{12}$ days (iii) $11\frac{9}{10}$ days (iv) $11\frac{1}{2}$ days (v) $11\frac{7}{10}$ days

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

(i) $\frac{3}{20}$ (ii) $\frac{1}{20}$ (iii) $(\frac{-1}{20})$ (iv) $\frac{1}{4}$ (v) $\frac{1}{5}$

6. Pipe A can fill a tank in 6 hr and pipe B can empty the full tank in 42 hr . If both the pipes are opened together, in how much time will the tank become full?

(i) 9 hr (ii) 4 hr (iii) 6 hr (iv) 8 hr (v) 7 hr

7. Two pipes can fill a tank in 7 min and 22 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank becomes full in $9\frac{3}{7}$ min from the time when both pipes are opened. For how much time was first pipe open?

(i) 4 min (ii) 3 min (iii) 5 min (iv) 1 min (v) 6 min

8. Due to a leak at the bottom, pipe Y takes $7\frac{7}{8}$ hr to fill the tank.
The leak alone can empty the full tank in 63 hr .
In what time can pipe Y alone fill the tank when the leak is closed?

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

9. 20 men can do a work in 15 days working 8 hours a day.
In how many days can 13 men do the same work, working 4 hours a day?

(i) $46\frac{2}{13}$ days (ii) $46\frac{2}{11}$ days (iii) $46\frac{4}{13}$ days (iv) 46 days (v) $46\frac{2}{15}$ days

10. 2 men and 3 women can do a piece of work in 6 days.
5 men and 2 women can do the same work in 6 days.
In how many days can 2 men and 2 women complete the same work?

(i) $8\frac{3}{4}$ days (ii) $8\frac{1}{4}$ days (iii) $8\frac{1}{6}$ days (iv) $8\frac{1}{2}$ days (v) $7\frac{3}{4}$ days

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

(i) $1\frac{3}{7}$ days (ii) $1\frac{11}{19}$ days (iii) $1\frac{11}{21}$ days (iv) $1\frac{11}{23}$ days (v) $1\frac{13}{21}$ days

12. A, B and C together can do a work in $1\frac{3}{7}$ days.
If A and C can do the work in 4 days and 5 days respectively,
in how many days can B alone do the work?

(i) 1 day (ii) 3 days (iii) 7 days (iv) 4 days (v) 5 days

13. A certain number of men can do a work in 40 days.
If there were 28 men less, it would take 32 days more to complete the work.
How many men are required to complete the work in 45 days?

(i) 58 (ii) 57 (iii) 55 (iv) 56 (v) 53

14. A and B can do a work in 2 days and 9 days respectively.
They together undertook to do a piece of work for ₹2200.00.
What is the share of B?

(i) ₹401.00 (ii) ₹1800.00 (iii) ₹400.00 (iv) ₹1798.00 (v) ₹399.00

15. A and B can do a work in 11 days and 16 days respectively.
If they work on alternate days and A begins the work,
in how many days can it be completed?

(i) 12 days (ii) 15 days (iii) 14 days (iv) 10 days (v) 13 days

16. Person P is nine times as good a workman as Person Q.
They can do a work together in $3\frac{3}{5}$ days.
In how many days Q alone can do the work?

(i) 36 days (ii) 38 days (iii) 37 days (iv) 35 days (v) 33 days

17. P and Q can do together a piece of work in $2\frac{8}{11}$ days.
After they have worked together for 2 days, P stops.
Q completes the remaining work in $1\frac{3}{5}$ days.
In how many days can Q alone do the work?
(i) 9 days (ii) 3 days (iii) 5 days (iv) 7 days (v) 6 days

18. 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 3 hr C joins both A and B to complete the work in $1\frac{5}{36}$ hr.
In how much time C alone can do the work?
(i) 11 hr (ii) 9 hr (iii) 10 hr (iv) 7 hr (v) 12 hr

19. A, B, C, D, and E can do a piece of work in
13 hr, 11 hr, 7 hr, 12 hr and 14 hr respectively.
Who has the greatest capacity to do work?
(i) D (ii) A (iii) B (iv) E (v) C

20. A, B, C, D, and E can do a piece of work in
10 days, 15 days, 6 days, 7 days and 11 days respectively.
Who has the greatest capacity to do work?
(i) E (ii) D (iii) B (iv) A (v) C

21. A and B can do a work in $5\frac{5}{21}$ hr, B and C can do it in $4\frac{5}{18}$ hr
and C and A can do it in $4\frac{2}{17}$ hr. In how much time can
each of them do it seperately?
(i) (10 hr, 11 hr, 8 hr) (ii) (10 hr, 12 hr, 7 hr) (iii) (10 hr, 11 hr, 7 hr) (iv) (11 hr, 12 hr, 7 hr)
(v) (11 hr, 11 hr, 7 hr)

22. A can do a piece of work in 13 hr, B can do the work in 15 hr
and C in 5 hr respectively. In how much time can they do it together?
(i) $2\frac{63}{67}$ hr (ii) $2\frac{59}{67}$ hr (iii) $2\frac{61}{69}$ hr (iv) $2\frac{61}{65}$ hr (v) $2\frac{61}{67}$ hr

23. A and B together can do a piece of work in $3\frac{3}{5}$ hr.
They work together for 1 hr and then A leaves.
B completes the remaining work in $4\frac{1}{3}$ hr.
In how much time can each of them do the work seperately?
(i) (9 hr, 6 hr) (ii) (8 hr, 6 hr) (iii) (9 hr, 7 hr) (iv) (9 hr, 5 hr) (v) (10 hr, 6 hr)

24. A can do $\frac{5}{10}$ of a work in $7\,\text{hr}$.

He works for $4\,\text{hr}$ when B joins him.

They work together and complete the work in $4\frac{1}{6}\,\text{hr}$.

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

(i) $10\,\text{hr}$ (ii) $9\,\text{hr}$ (iii) $8\,\text{hr}$ (iv) $11\,\text{hr}$ (v) $13\,\text{hr}$

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25. A can construct $\frac{5}{9}$ of a wall in $3\frac{8}{9}\,\text{hr}$.

B can construct $\frac{4}{5}$ of the wall in $4\,\text{hr}$.

C can construct $\frac{4}{5}$ of the wall in $4\frac{4}{5}\,\text{hr}$.

If all three work together, in how much time will they construct $\frac{5}{7}$ of the wall?

(i) $1\frac{43}{105}\,\text{hr}$ (ii) $1\frac{43}{109}\,\text{hr}$ (iii) $1\frac{43}{107}\,\text{hr}$ (iv) $1\frac{45}{107}\,\text{hr}$ (v) $1\frac{41}{107}\,\text{hr}$

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26. A, B and C can together do a piece of work in $2\frac{6}{17}\,\text{hr}$.

B and C can do it in $3\frac{1}{13}\,\text{hr}$.

C alone can do it in $8\,\text{hr}$.

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

(i) $4\frac{2}{3}\,\text{hr}$ (ii) $4\frac{4}{9}\,\text{hr}$ (iii) $4\frac{4}{7}\,\text{hr}$ (iv) $4\frac{2}{9}\,\text{hr}$ (v) $4\frac{4}{11}\,\text{hr}$

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27. A sum of ₹6877.00 will be given to do a work.

A and B can do it in $6\frac{9}{26}\,\text{hr}$.

B and C can do in $7\frac{7}{29}\,\text{hr}$. C and A can do in $6\frac{4}{25}\,\text{hr}$.

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

(i) (₹2730,₹2002,₹2145) (ii) (₹2002,₹2145,₹2730) (iii) (₹2145,₹2002,₹2730) (iv) (₹2730,₹2145,₹2002)

(v) (₹2145,₹2730,₹2002)

Assignment Key

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