EduSahara™ Assignment

Name : Time and Work

Chapter : Time and Work

Grade : ICSE Grade VII



1. A can do a work in 2 days and B can do the same work in 9 days.
If they work together, in how much time is the work completed?

(i) $1\frac{7}{9}$ days (ii) $1\frac{7}{13}$ days (iii) $1\frac{5}{11}$ days (iv) $1\frac{9}{11}$ days (v) $1\frac{7}{11}$ days

2. A can do a work in 7 days. With the help of B, A can do the same work in $2\frac{11}{12}$ days. In how many days can B alone do the work?

(i) 8 days (ii) 4 days (iii) 2 days (iv) 5 days (v) 6 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 6 days. If all three work together, in how many days will the work be completed?

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

4. A and B can do a piece of work in 20 days and 15 days respectively. They work together for 6 days and then B leaves. In how many days the whole work is completed?

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

5. 4 men take 6 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) $(\frac{-1}{24})$ (iv) $\frac{1}{6}$ (v) $\frac{1}{4}$

6. Pipe A can fill a tank in 5 hr and pipe B can empty the full tank in $35$ hr. If both the pipes are opened together, in how much time will the tank become full?

(i) $5\frac{5}{6}$ hr (ii) $5\frac{1}{2}$ hr (iii) $6\frac{1}{6}$ hr (iv) $6\frac{1}{4}$ hr (v) $5\frac{5}{8}$ hr

7. Two pipes can fill a tank in 15 min and 21 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank becomes full in $18\frac{1}{5}$ min from the time when both pipes are opened. For how much time was first pipe open?

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

8. Due to a leak at the bottom, pipe Y takes $9\frac{3}{5}$ hr to fill the tank. The leak alone can empty the full tank in 48 hr.
In what time can pipe Y alone fill the tank when the leak is closed?

(i) 10 hr (ii) 8 hr (iii) 5 hr (iv) 9 hr (v) 7 hr

9. 11 men can do a work in 14 days working 5 hours a day.
In how many days can 12 men do the same work, working 9 hours a day?

(i) $7\frac{1}{6}$ days (ii) $7\frac{7}{54}$ days (iii) $7\frac{7}{52}$ days (iv) $7\frac{5}{54}$ days (v) $7\frac{1}{8}$ days

10. 8 skilled men can do a work in 4 days.
8 unskilled men can do the same work in 4 days.
In how many days can 3 skilled and 6 unskilled men do the same work?

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

11. A, B and C together can do a work in $1\frac{1}{19}$ 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) 7 days (ii) 3 days (iii) 2 days (iv) 5 days (v) 4 days

12. A certain number of men can do a work in 28 days.
If there were 4 men less, it would take 14 days more to complete the work.
How many men are required to complete the work in 24 days?

(i) 13 (ii) 15 (iii) 16 (iv) 12 (v) 14

13. A and B can do a work in 7 days and 2 days respectively.
They together undertook to do a piece of work for ₹5400.00.
What is the share of B?

(i) ₹4199.00 (ii) ₹1198.00 (iii) ₹4200.00 (iv) ₹4201.00 (v) ₹1200.00

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 $3\frac{4}{9}$ days.
In how many days can Q alone do the work?

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

15. A, B, C, D, and E can do a piece of work in
11 hr, 14 hr, 5 hr, 12 hr and 6 hr respectively.
Who has the greatest capacity to do work?

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

16. A, B, C, D, and E can do a piece of work in
13 days, 12 days, 7 days, 10 days and 8 days respectively.
Who has the greatest capacity to do work?

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

17. A and B can do a work in $6\frac{6}{13}$ hr, B and C can do it in $6\frac{20}{27}$ hr and C and A can do it in $6\frac{6}{25}$ hr. In how much time can each of them do it seperately?

(i) $(12\,\text{hr}, 14\,\text{hr}, 13\,\text{hr})$ (ii) $(13\,\text{hr}, 14\,\text{hr}, 13\,\text{hr})$ (iii) $(13\,\text{hr}, 15\,\text{hr}, 13\,\text{hr})$ (iv) $(12\,\text{hr}, 15\,\text{hr}, 13\,\text{hr})$ (v) $(12\,\text{hr}, 14\,\text{hr}, 14\,\text{hr})$

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18. A and B can do a work in $3\frac{13}{19}$ days, B and C can do it in $3\frac{3}{4}$ days and C and A can do it in $7\frac{7}{29}$ days. In how much time can each of them do it seperately?

(i) $(14\,\text{days}, 5\,\text{days}, 16\,\text{days})$ (ii) $(14\,\text{days}, 6\,\text{days}, 15\,\text{days})$ (iii) $(15\,\text{days}, 5\,\text{days}, 15\,\text{days})$ (iv) $(14\,\text{days}, 5\,\text{days}, 15\,\text{days})$ (v) $(15\,\text{days}, 6\,\text{days}, 15\,\text{days})$

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19. A can do a piece of work in $5\,\text{hr}$, B can do the work in $11\,\text{hr}$ and C in $6\,\text{hr}$ respectively. In how much time can they do it together?

(i) $2\frac{26}{151}$ hr (ii) $2\frac{30}{151}$ hr (iii) $2\frac{28}{153}$ hr (iv) $2\frac{28}{149}$ hr (v) $2\frac{28}{151}$ hr

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20. A can do a piece of work in $8\,\text{days}$, B can do the work in $13\,\text{days}$ and C in $9\,\text{days}$ respectively. In how much time can they do it together?

(i) $3\frac{57}{295}$ days (ii) $3\frac{57}{293}$ days (iii) $3\frac{59}{293}$ days (iv) $3\frac{55}{293}$ days (v) $3\frac{19}{97}$ days

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21. A and B together can do a piece of work in $3\frac{3}{14}$ hr. They work together for $1\,\text{hr}$ and then A leaves. B completes the remaining work in $6\frac{1}{5}$ hr.

In how much time can each of them do the work seperately?

(i) $(6\,\text{hr}, 9\,\text{hr})$ (ii) $(5\,\text{hr}, 8\,\text{hr})$ (iii) $(5\,\text{hr}, 10\,\text{hr})$ (iv) $(4\,\text{hr}, 9\,\text{hr})$ (v) $(5\,\text{hr}, 9\,\text{hr})$

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22. A and B together can do a piece of work in $3\frac{15}{17}$ days. They work together for $1\,\text{day}$ and then A leaves. B completes the remaining work in $4\frac{5}{11}$ days.

In how much time can each of them do the work seperately?

(i) $(12\,\text{days}, 6\,\text{days})$ (ii) $(10\,\text{days}, 6\,\text{days})$ (iii) $(11\,\text{days}, 6\,\text{days})$ (iv) $(11\,\text{days}, 5\,\text{days})$ (v) $(11\,\text{days}, 7\,\text{days})$

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23. A can do $\frac{7}{8}$ of a work in $12\frac{1}{4}$ hr. He works for $7\,\text{hr}$ when B joins him. They work together and complete the work in $2\frac{11}{12}$ hr.

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

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

24. A sum of ₹745.00 will be given to do a work.

A and B can do it in $5\frac{5}{8}$ hr.

B and C can do in $5\frac{7}{22}$ hr. C and A can do in $6\frac{27}{28}$ hr.

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

(i) (₹325,₹225,₹195) (ii) (₹225,₹325,₹195) (iii) (₹195,₹225,₹325) (iv) (₹225,₹195,₹325)

(v) (₹195,₹325,₹225)

25. A sum of ₹3783.00 will be given to do a work.

A and B can do it in $5\frac{15}{23}$ days.

B and C can do in $4\frac{11}{20}$ days. C and A can do in $4\frac{2}{17}$ days.

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

(i) (₹1183,₹910,₹1690) (ii) (₹1183,₹1690,₹910) (iii) (₹1690,₹1183,₹910) (iv) (₹910,₹1690,₹1183)

(v) (₹1690,₹910,₹1183)

## Assignment Key

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