EduSahara™ Worksheet

Name : Chapter Based Worksheet

Chapter : Time and Work

Grade : ICSE Grade VII

1. Pipe A can fill a tank in 8 hr and pipe B can empty the full tank in 72 hr. If both the pipes are opened together, in how much time will the tank become full?

(i) 10 hr (ii) 7 hr (iii) 9 hr (iv) 8 hr (v) 12 hr

2. A, B, C, D, and E can do a piece of work in 12 days, 8 days, 6 days, 10 days and 5 days respectively. Who has the greatest capacity to do work?

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

3. 11 men can do a work in 7 days working 5 hours a day. In how many days can 11 men do the same work, working 3 hours a day?

(i) $11\frac{2}{3}$ days (ii) $12\frac{1}{3}$ days (iii) $11\frac{2}{5}$ days (iv) 11 days (v) 13 days

4. A can do $\frac{2}{9}$ of a work in $3\frac{1}{9}$ hr. He works for 7 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) 8 hr (ii) 10 hr (iii) 13 hr (iv) 9 hr (v) 11 hr

5. A sum of ₹1095.00 will be given to do a work. A and B can do it in $3\frac{3}{7}$ days. B and C can do in $3\frac{11}{15}$ days. C and A can do in $3\frac{3}{13}$ days. How much A, B and C respectively will get if all three work together?

(i) (₹420,₹360,₹315) (ii) (₹420,₹315,₹360) (iii) (₹360,₹315,₹420) (iv) (₹360,₹420,₹315) (v) (₹315,₹360,₹420)

6. A certain number of men can do a work in 63 days. If there were 6 men more, it would take 21 days less to complete the work. How many men are required to complete the work in 54 days?

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

7. A and B can do a piece of work in 10 days and 15 days respectively. They work together for 1 day and then B leaves. In how many days the whole work is completed?

(i) $9\frac{1}{5}$ days (ii) $9\frac{1}{3}$ days (iii) $8\frac{2}{3}$ days (iv) 10 days

8. P and Q can do together a piece of work in $3\frac{3}{14}$ days.
After they have worked together for 2 days, P stops.
Q completes the remaining work in $1\frac{8}{9}$ days.
In how many days can Q alone do the work?
(i) 3 days (ii) 6 days (iii) 4 days (iv) 5 days (v) 8 days

9. 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) 6 days (ii) 8 days (iii) 4 days (iv) 7 days (v) 10 days

10. A and B together can do a piece of work in $5\frac{1}{11}$ hr.
They work together for 1 hr and then A leaves.
B completes the remaining work in $11\frac{1}{4}$ hr.
In how much time can each of them do the work seperately?
(i) (8 hr, 14 hr) (ii) (7 hr, 14 hr) (iii) (9 hr, 14 hr) (iv) (8 hr, 15 hr) (v) (8 hr, 13 hr)

11. 8 men take 8 days to complete a work.
How much work is done by one man in one day?
(i) $\frac{3}{64}$ (ii) $\frac{1}{8}$ (iii) $\frac{1}{64}$ (iv) $(\frac{-1}{64})$

12. A sum of ₹3350.00 will be given to do a work.
A and B can do it in $4\frac{12}{19}$ hr.
B and C can do in $4\frac{20}{21}$ hr. C and A can do in $5\frac{23}{24}$ hr.
How much A, B and C respectively will get if all three work together?
(i) (₹880, ₹1430, ₹1040) (ii) (₹1430, ₹880, ₹1040) (iii) (₹1040, ₹1430, ₹880) (iv) (₹880, ₹1040, ₹1430)
(v) (₹1040, ₹880, ₹1430)

13. A can do a piece of work in 14 hr, B can do the work in 6 hr
and C in 6 hr respectively. In how much time can they do it together?
(i) $2\frac{8}{17}$ hr (ii) $2\frac{6}{17}$ hr (iii) $2\frac{8}{19}$ hr (iv) $2\frac{8}{15}$ hr (v) $2\frac{10}{17}$ hr

14. Due to a leak at the bottom, pipe Y takes 4 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) 6 hr (ii) 2 hr (iii) 3 hr (iv) 4 hr (v) 1 hr

15. A can do a piece of work in 12 days, B can do the work in 6 days
and C in 8 days respectively. In how much time can they do it together?
(i) $3\frac{1}{3}$ days (ii) $2\frac{2}{5}$ days (iii) 2 days (iv) $2\frac{2}{3}$ days (v) 4 days

16. 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 5 days. If all three work together, in how many days will the work be completed?

(i) $3\frac{99}{109}$ days (ii) $3\frac{33}{35}$ days (iii) $3\frac{99}{107}$ days (iv) $3\frac{97}{107}$ days (v) $3\frac{101}{107}$ days

17. Two pipes can fill a tank in 15 min and 26 min respectively. Both pipes are opened together and after some time the first pipe is closed and the tank becomes full in $17\frac{1}{3}$ min from the time when both pipes are opened. For how much time was first pipe open?

(i) 7 min (ii) 2 min (iii) 5 min (iv) 4 min (v) 6 min

18. 2 skilled men can do a work in 8 days. 2 unskilled men can do the same work in 9 days. In how many days can 3 skilled and 3 unskilled men do the same work?

(i) $2\frac{14}{19}$ days (ii) $2\frac{14}{17}$ days (iii) $2\frac{16}{17}$ days (iv) $2\frac{12}{17}$ days (v) $2\frac{14}{15}$ days

19. A, B, C, D, and E can do a piece of work in 13 hr, 14 hr, 15 hr, 12 hr and 7 hr respectively. Who has the greatest capacity to do work?

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

20. A and B can do a work in 6 days and 5 days respectively. They together undertook to do a piece of work for ₹6600.00. What is the share of B?

(i) ₹3601.00 (ii) ₹3000.00 (iii) ₹3600.00 (iv) ₹2998.00 (v) ₹3599.00

21. A and B together can do a piece of work in $2\frac{11}{12}$ days. They work together for 1 day and then A leaves. B completes the remaining work in $4\frac{3}{5}$ days. In how much time can each of them do the work seperately?

(i) (5 days, 7 days) (ii) (5 days, 6 days) (iii) (4 days, 7 days) (iv) (6 days, 7 days) (v) (5 days, 8 days)

22. A and B can do a work in $5\frac{5}{6}$ hr, B and C can do it in $5\frac{15}{23}$ 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) (14 hr, 10 hr, 13 hr) (ii) (15 hr, 11 hr, 13 hr) (iii) (14 hr, 10 hr, 14 hr) (iv) (14 hr, 11 hr, 13 hr)

(v) (15 hr, 10 hr, 13 hr)

23. A and B can do a work in $3\frac{13}{19}$ days, B and C can do it in $3\frac{11}{18}$ days and C and A can do it in $6\frac{20}{27}$ days. In how much time can each of them do it seperately?

(i) (15 days, 5 days, 13 days) (ii) (14 days, 5 days, 14 days) (iii) (14 days, 5 days, 13 days)

(iv) (14 days, 6 days, 13 days) (v) (15 days, 6 days, 13 days)

24. A, B and C together can do a work in $1\frac{13}{47}$ days. If A and C can do the work in 5 days and 3 days respectively, in how many days can B alone do the work?

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

25. A can do a work in 8 days and B can do the same work in 4 days. If they work together, in how much time is the work completed?

(i) $3\frac{1}{3}$ days (ii) 4 days (iii) $2\frac{2}{3}$ days (iv) $2\frac{2}{5}$ days (v) 2 days

Assignment Key

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