Name: Time and Work

Chapter: Time and Work

Grade: ICSE Grade VIII

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- A can do a work in 6 days and B can do the same work in 6 days .
- If they work together, in how much time is the work completed?
 - (i) 2 days (ii) 6 days (iii) 4 days (iv) 0 days (v) 3 days
 - A can do a work in 3 days. With the help of B, A can do the same work in
- 2. $1\frac{5}{7}$ days. In how many days can B alone do the work?
 - (i) 2days (ii) 3days (iii) 6days (iv) 4days (v) 5days
 - A and B can do a work in 9 days, B and C can do in 7 days
- 3. and C and A can do in 8 days. If all three work together, in how many days will the work be completed?
 - (i) $5\frac{53}{189}$ days (ii) $5\frac{53}{191}$ days (iii) $5\frac{55}{191}$ days (iv) $5\frac{53}{193}$ days (v) $5\frac{51}{191}$ days
 - A and B can do a piece of work in 13 days and 11 days respectively.
- 4. They work together for 2 days and then B leaves.
 - In how many days the whole work is completed?
 - (i) $10\frac{5}{11}$ days (ii) $10\frac{7}{11}$ days (iii) $10\frac{9}{11}$ days (iv) $10\frac{7}{13}$ days (v) $10\frac{7}{9}$ days
- 5. 8 men take 2 days to complete a work.
 How much work is done by one man in one day?
 - (i) $\frac{1}{8}$ (ii) $(\frac{-1}{16})$ (iii) $\frac{1}{16}$ (iv) $\frac{3}{16}$ (v) $\frac{1}{2}$
- Pipe A can fill a tank in 4hr and pipe B can empty the full tank in
- 6. 36 hr. If both the pipes are opened together,
 - in how much time will the tank become full?
 - (i) $5\frac{1}{2}$ hr (ii) $4\frac{1}{2}$ hr (iii) $4\frac{1}{4}$ hr (iv) $3\frac{1}{2}$ hr (v) 5 hr
- Two pipes can fill a tank in 13 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 $17\frac{10}{13}$ min from the time when both pipes are opened. For how much time was first pipe open?
 - (i) 5 min (ii) 2 min (iii) 3 min (iv) -1 min (v) 1 min
 - Due to a leak at the bottom, pipe Y takes 9 hr to fill the tank.
- 8. The leak alone can empty the full tank in 18 hr.
 - In what time can pipe Y alone fill the tank when the leak is closed?
 - (i) 5hr (ii) 7hr (iii) 4hr (iv) 6hr (v) 8hr

9. In how many days can 12 men do the same work, working 3 hours a day?

(i) $15\frac{1}{6}$ days (ii) $15\frac{1}{2}$ days (iii) $14\frac{5}{6}$ days (iv) $15\frac{1}{9}$ days (v) $15\frac{1}{4}$ days

3 men and 4 women can do a piece of work in 20 days.

10. 2 men and 25 women can do the same work in 16 days.

In how many days can 4 men and 5 women complete the same work?

(i)
$$15\frac{7}{69}$$
 days (ii) $15\frac{7}{73}$ days (iii) $15\frac{7}{71}$ days (iv) $15\frac{9}{71}$ days (v) $15\frac{5}{71}$ days

7 skilled men can do a work in 4 days.

11. 6 unskilled men can do the same work in 9 days.

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

(i)
$$5\frac{3}{151}$$
 days (ii) $5\frac{1}{149}$ days (iii) $5\frac{1}{153}$ days (iv) $5\frac{1}{151}$ days (v) $4\frac{150}{151}$ days

A, B and C together can do a work in $1\frac{1}{5}$ days.

- If A and C can do the work in 4 days and 4 days respectively, in how many days can B alone do the work?
 - (i) Odays (ii) 3days (iii) 6days (iv) 2days (v) 4days

A certain number of men can do a work in 63 days.

13. If there were 25 men more, it would take 45 days less to complete the work. How many men are required to complete the work in 14 days?

(i) 46 (ii) 45 (iii) 44 (iv) 48 (v) 43

A and B can do a work in 3 days and 5 days respectively.

14. They together undertook to do a piece of work for \$4800.00.

What is the share of B?

(i) ₹1799.00 (ii) ₹1801.00 (iii) ₹2998.00 (iv) ₹3000.00 (v) ₹1800.00

A and B can do a work in 15 days and 21 days respectively.

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

(i) 20 days (ii) 19 days (iii) 17 days (iv) 16 days (v) 18 days

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

16. They can do a work together in $7\frac{1}{2}$ days.

In how many days Q alone can do the work?

(i) 48 days (ii) 45 days (iii) 43 days (iv) 44 days (v) 46 days

P and Q can do together a piece of work in $4\frac{4}{17}$ days . After they have worked together for 3 days , P stops. Q completes the remaining work in $2\frac{1}{3}$ days . In how many days can Q alone do the work? (i) 8 days (ii) 9 days (iii) 11 days (iv) 5 days (v) 7 days	
A can do a piece of work in 10 hr and B in 6 hr. A does the work for 2 hr before B join A to work together. 18. Again after 2 hr C joins both A and B to complete the work in $\frac{4}{7}$ hr. In how much time C alone can do the work? (i) 6 hr (ii) 7 hr (iii) 2 hr (iv) 5 hr (v) 4 hr	
A, B, C, D, and E can do a piece of work in 19. 8 hr, 10 hr, 13 hr, 15 hr and 7 hr respectively. Who has the greatest capacity to do work? (i) C (ii) E (iii) B (iv) A (v) D	
A, B, C, D, and E can do a piece of work in 20. 13 days, 14 days, 5 days, 6 days and 15 days respectively. Who has the greatest capacity to do work? (i) E (ii) B (iii) D (iv) A (v) C	
A and B can do a work in $2\frac{1}{2}$ hr, B and C can do it in $2\frac{1}{2}$ hr 21. and C and A can do it in $2\frac{1}{2}$ hr. In how much time can each of them do it seperately? (i) $(5 \text{hr}, 6 \text{hr}, 5 \text{hr})$ (ii) $(5 \text{hr}, 5 \text{hr}, 5 \text{hr})$ (iii) $(5 \text{hr}, 5 \text{hr}, 6 \text{hr})$ (iv) $(6 \text{hr}, 5 \text{hr}, 5 \text{hr})$ (v) $(6 \text{hr}, 6 \text{hr}, 5 \text{hr})$	
22. A can do a piece of work in 12 hr, B can do the work in 5 hr and C in 10 hr respectively. In how much time can they do it together? (i) $2\frac{2}{3}$ hr (ii) $2\frac{16}{23}$ hr (iii) $2\frac{14}{25}$ hr (iv) $2\frac{12}{23}$ hr (v) $2\frac{14}{23}$ hr	
A and B together can do a piece of work in $2\frac{1}{2}$ hr. 23. They work together for 1 hr and then A leaves. B completes the remaining work in 3 hr. In how much time can each of them do the work seperately? (i) $(5 \text{hr}, 5 \text{hr})$ (ii) $(6 \text{hr}, 5 \text{hr})$ (iii) $(5 \text{hr}, 6 \text{hr})$ (iv) $(4 \text{hr}, 5 \text{hr})$ (v) $(5 \text{hr}, 4 \text{hr})$	
A can do $\frac{5}{6}$ of a work in $8\frac{1}{3}$ hr. He works for 5 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) 7 hr (ii) 8 hr (iii) 6 hr (iv) 9 hr (v) 10 hr	

A can construct $\frac{2}{5}$ of a wall in 4 hr.

B can construct $\frac{3}{10}$ of the wall in 3 hr.

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

If all three work together, in how much time will they

construct $\frac{5}{7}$ of the wall?

(i)
$$2\frac{29}{96}$$
 hr (ii) $2\frac{29}{100}$ hr (iii) $2\frac{31}{98}$ hr (iv) $2\frac{29}{98}$ hr (v) $2\frac{27}{98}$ hr

A, B and C can together do a piece of work in $2\frac{46}{157}$ hr.

26. B and C can do it in $4\frac{4}{17}$ hr.

C alone can do it in 9 hr.

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

(i)
$$3\frac{1}{4}$$
 hr (ii) $3\frac{1}{14}$ hr (iii) $3\frac{5}{14}$ hr (iv) $3\frac{3}{14}$ hr (v) $3\frac{3}{16}$ hr

A sum of₹1585.00 will be given to do a work.

A and B can do it in $3\frac{13}{10}$ hr.

27. 19

B and C can do in $6\frac{20}{27}$ hr.C and A can do in $3\frac{11}{18}$ hr.

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

- (i) (₹325,₹350,₹910) (ii) (₹350,₹325,₹910) (iii) (₹910,₹325,₹350) (iv) (₹910,₹350,₹325)
- (v) (₹350,₹910,₹325)

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

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