

## Time and Work

### A. Choose the Correct Answer:

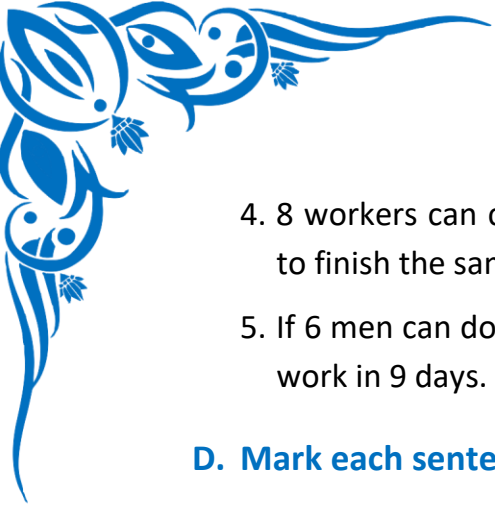
1. If 6 men can complete a work in 12 days, how many days will 3 men take to complete the same work?  
a) 6 days  
b) 18 days  
c) 24 days  
d) 12 days
2. If 8 workers finish a task in 15 days, then 4 workers will finish it in:  
a) 30 days  
b) 60 days  
c) 15 days  
d) 20 days
3. Time taken is \_\_\_\_\_ proportional to number of workers.  
a) Directly  
b) Inversely  
c) Not related  
d) Constantly
4. If 5 men take 20 days to do a piece of work, then 10 men will take:  
a) 10 days  
b) 5 days  
c) 20 days  
d) 40 days
5. Which of the following statements is true for time and work?  
a) More workers, more time  
b) Less workers, less time  
c) More workers, less time  
d) Workers and time are not related

### B. Write the Missing Terms to Complete the Sentences:

1. In time and work problems, work is \_\_\_\_\_ to number of days.
2. If number of workers increases, the time taken to complete work \_\_\_\_\_.
3. If 4 men can do a work in 10 days, then 8 men will do it in \_\_\_\_\_ days.
4. More men employed means \_\_\_\_\_ time to finish the same work.
5.  $\text{Work} \times \text{Time} = \text{_____}$  for constant work.

### C. Figure out the answers to these questions:

1. 12 men can complete a project in 8 days How many men are needed to complete it in 6 days.
2. If 15 men can paint a wall in 10 days, how many days will 5 men take to paint the wall.
3. A team of 5 workers can build a wall in 20 days How many days will 10 workers take.



4. 8 workers can complete a job in 24 days How many days will 12 workers take to finish the same job.
5. If 6 men can do a work in 18 days, how many men are needed to complete the work in 9 days.

**D. Mark each sentence with a True (✓) or False (X):**

1. Time and number of workers are in inverse proportion. \_\_\_\_\_
2. If workers double, time becomes half. \_\_\_\_\_
3. Less workers take less time to complete the work. \_\_\_\_\_
4. Work done is directly proportional to the number of days taken. \_\_\_\_\_
5. If time is doubled, work is halved. \_\_\_\_\_

**E. Challenge yourself with these questions:**

1. If 9 men can complete a work in 15 days, in how many days will 3 men complete the same work.
2. 7 workers can build a road in 21 days How many days will 14 workers take.
3. If 5 men complete a work in 30 days, how many men are needed to complete the same work in 15 days.
4. 12 men complete a work in 18 days How many days would 6 men take.
5. If 10 workers can complete a job in 12 days, how many days will 5 workers take.