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. Work × Time = _____ 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 (✗):

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.