DIRECT AND INVERSE PROPORTIONS

TIME AND WORK

EXERCISE

Q.1 2 men working together take 6 days to finish a piece of work. If one of them takes 15 days if he works alone, find how long the second man will take to finish it, working alone?

Q.2 A and B take 12 days to finish a piece of work. If B and C work together they take 15 days. While A and C together take 20 days. Find the time taken by each to work alone.

Q.3 A contractor hires 120 men to complete a job in 6 months. How many men should he hire if he has to complete the job in 4 months?

Q.4 A and B together can write a manuscript in
20 days. If A takes 25 days when working along, find the time taken by B working alone.

Q.5 30 men can harvest a field in 14 days. Find the time taken by 20 men for the same job.

Q.6 Meeta. Veena and Kamlesh can sweep a playground in 4, 6 and 8 hours respectively. What portion of that ground can they sweep in one hour working together?

Q.7 If 20 men working 12 hours a day can do binding of 2500 books in a day, how many books can 24 men bind in a day if each of them work 8 hours a day ?

Q.8 4 men and 7 boys can dig a tank in 15 days. How long would 2 men and 4 boys working together take to dig the tank.

Q.9 A can do a piece of work in 25 days, B can finish it in 20 days. They work together for
5 days and then A goes away. In how many days will B finish the remaining work?

Q.10 6 men can complete the electric fitting of a building in 7 days. How many days will it take if 21 men do the job?

ANSWER KEY

1. 10 days

2. A = 30 days, B = 20 days, C = 60 days

3. 180 men

4. 100 days

5. 21 days

6. $\frac{13}{24}$ th portion

7. 2000 books

8. 52.5 days

9. 11 days

10. 2 days