## DIRECT AND INVERSE VARIATION

| Q1. | Surbhi takes 15 days to make a carpet. How much work will be done by her in:  | r |
|-----|---|---|
|     | a. 3 days?  |   |
|     | Work done:  |   |
|     | o. 5 days?  |   |
|     | Work done:  |   |
|     | c. 10 days?   |   |
|     | Work done:  |   |
| Q2. | 2 men or 3 women earn ₹ 480 per day. How much money can 5 men and 6 women together earn in a week?  | 1 |
|     | Answer:   |   |
| Q3. | If 12 men construct a house in 35 days, how many days will 15 men tak to construct an identical house?  | e |
|     | Answer:   |   |
| Q4. | Raju weaves thrice as fast as Kamini. If Raju finishes weaving a shawl in 6 days, how many days will both of them together take to weave a shawl? |   |
|     | Answer:   |   |
| Q5. | 7 men plough a field in 30 days working 12 hours a day. In how many days can 15 men plough the same field, if they work 8 hours a day?            |   |
|     | Answer:   |   |

| re<br>le<br>A | A, B and C alone finish a piece of work in 12 days, 15 days and 9 days respectively. If all of them work together for 3 days, after which A and B eave, find the number of days taken by C to finish the remaining work.  Answer:  A, B and C together can do a work in 12 days. A alone can do it in 18 |
|---------------|--|
|               | A, B and C together can do a work in 12 days. A alone can do it in 18  |
|               | lays while A and B can do it in 14 days. In how many days will A and C do the same work?   |
| A             | Answer:  |
| d             | A and B can reap a field in 6 days, B and C in 8 days, and C and A in 12 days. If all of them work together, in how many days will they be able to reap the same field?  |
| A             | Answer:  |
|               | A and B together can do a work in 40 days. B alone can do one-fourth of the work in 24 days. In how many days A alone can do it?   |
| A             | Answer:  |

## Answers

- 1. a.  $\frac{1}{5}$  work; b.  $\frac{1}{3}$  work; c.  $\frac{2}{3}$  work
- 2. ₹ 15,120
- 3. 28 days
- 4.  $4\frac{1}{2}$  days
- 5. 21 days
- 6. 30 more developers
- 7.  $1\frac{19}{20}$  days
- 8.  $14\frac{14}{17}$  days
- 9.  $5\frac{1}{3}$  days
- 10.  $68\frac{4}{7}$  days