

Worksheet

1. Amit planned a visit to Europe. Before going, he learnt that exchange rate of a Euro is ₹ 53. How many Euros can he buy with the exchange of ₹ 14575?
2. 3 pineapples cost ₹ 135. How many pineapples can be bought for ₹ 2025?
3. If 12 notebooks cost ₹ 108, how many notebooks can be bought for ₹ 729?
4. Assuming taxi fare is directly proportional to the length of journey. Find the fare for 36 km of journey if the taxi fare for 8 km is ₹ 96.
5. If 25 men can do a certain work in 12 days, how long will 30 men take to do so?
6. A can do a piece of work in 20 days while B can do the same job in 30 days. In how many days can A and B working together finish the work?
7. A and B can do a work in 18 days, B and C can do the same work in 15 days, A and C can do in 12 days. In what time can each one of them do it alone?
8. A, B and C can do a job in 20 days, 30 days and 60 days, respectively. In how many days will A complete the job if he is assisted by B and C on every third day?
9. A, B and C can finish a work in 18 days, 24 days and 36 days, respectively. They worked together and earned ₹ 5400. What is the share of A, B and C?
10. A container can be filled by one tap in 4 hours and by another tap in 6 hours. How long will it take to fill it if both taps are opened simultaneously?
11. Choose the correct answer.
 - a. A and B can finish a work in 20 days. A alone can do $\frac{1}{4}$ th of the work in 15 days. If B is to work alone, he will finish the work in
 - i. 60 days
 - ii. 40 days
 - iii. 30 days
 - iv. 20 days
 - b. 4 boys take 4 minutes to eat 4 bananas. How many minutes would it take for 15 boys to eat 15 bananas?
 - i. 4 minutes
 - ii. 5 minutes
 - iii. 10 minutes
 - iv. 15 minutes
 - c. Aamir can finish $\frac{1}{15}$ part of a work in one day. How long will he take to complete the work?
 - i. 5 days
 - ii. 10 days
 - iii. 15 days
 - iv. 20 days
 - d. Two cyclists start from the same place in opposite directions. One goes north at 20 km/h and the other goes towards south at 16 km/h. How long will they take to be 90 km apart?
 - i. 2 hours
 - ii. $2\frac{1}{2}$ hours
 - iii. 3 hours
 - iv. $22\frac{1}{2}$ hours
 - e. If 20 men can complete a job in 8 days, then 80 men can finish the same job in
 - i. 1 days
 - ii. 2 days
 - iii. 5 days
 - iv. 10 days
 - f. A journey by car takes 45 minutes at 40 km/h. If the same journey is to be covered in 25 minutes, the speed of the car should be
 - i. 60 km/h
 - ii. 65 km/h
 - iii. 72 km/h
 - iv. 90 km/h
12. Classify the following as True or False statements.
 - a. A can do a piece of work in 5 days, B can do it in 10 days. They complete the work together in 15 days.
 - b. If two quantities vary inversely to each other, their product remains constant.

- c. The length and breadth of a rectangle are in direct proportion, if area of the rectangle is constant.
- d. If a men can complete a job in x days, then 4 men will complete the same job in xy days.
- e. The number of people employed to complete a job and the time taken to finish the job varies inversely with each other.
- f. Typing at a speed of 32 words per minute, Atul can type a question paper in half-an hour. If he increased the speed to 40 words per minute, then the time taken by him to type the same question paper is 24 minutes.

Answers to Worksheet

- 1. 275 Euros
- 2. 45 pineapples
- 3. 81 notebooks
- 4. ₹ 432
- 5. 10 days
- 6. 12 days
- 7. $27\frac{9}{13}$ days, $51\frac{3}{7}$ days, $21\frac{3}{17}$ days
- 8. 15 days
- 9. ₹ 2400, ₹ 1800, ₹ 1200
- 10. 2 hours 24 minutes
- 11. a. (iii) b. (i) c. (iii) d. (ii) e. (ii) f. (iii)
- 12. a. F b. T c. F d. F e. T f. T