

Unitary Method

Q1. Find whether the following are direct variation situations or not and tick the correct option:

- a. More the number of articles, more money required to purchase them : (Yes/ No)
- b. Lesser the speed of a vehicle, lesser the time taken to cover a particular distance : (Yes/ No)
- c. Lesser the money borrowed, lesser the interest to be paid : (Yes/ No)
- d. More the number of men employed to complete a work, more the number of days taken : (Yes/ No)

Q2. A mason works for 15 days and gets ₹1725. How many days should he work to earn ₹9200?

Answer: _____

Q3. Jyoti reads 18 pages of a book every day and finishes reading the book in 48 days. If she reads 12 pages in a day, how many more days will she take to finish the entire book?

Answer: _____

Q4. 12 men can paint a wall in 9 hours. How many men will be required to paint the wall in 4 hours?

Answer: _____

Q5. Abhishek takes 12 days to carve a wooden stick. Amit takes 14 days to carve the same stick. If both of them work together, in how many days will they finish carving the stick?

Answer: _____

Q6. Geeta and Smitha together stitch a dress in 10 days. If Geeta alone takes 15 days to stitch the dress, how many days will Smitha take to stitch the dress?

Answer: _____

Q7. Mahesh makes a carpet in 8 days. Akshay can make it in 6 days. They work together on a carpet for 2 days after which Mahesh leaves. In how many days will Akshay make the remaining carpet?

Answer: _____

Q8. Fill in the blanks:

- a. Ram covered 36 km in 5 hours. His speed was _____ m/sec.
- b. Rajan drives at a speed of 81 km/hr. He covers _____ metres in a second.
- c. A car travels 72 km in an hour. It will cover _____ metres in 7 seconds.

Q9. Sushil walks 3 km in 30 minutes. How much time will he take to cover 200 metres?

Answer: _____

Q10. Abha and Neeti run from a point A to a point B. If Abha covers 4.5 km in an hour and Neeti covers 1.75 m in a second, who will reach the point B first?

Answer: _____

Answers

1. a. Yes; b. No; c. Yes; d. No
2. 80 days
3. 72 days
4. 27 men
5. $6\frac{6}{13}$ days
6. 30 days
7. $2\frac{1}{2}$ days
8. a. 2; b. 22.5; c. 140
9. 120 seconds or 2 minutes
10. Neeti will reach first.