

Direct and Inverse Proportions

Topic: Inverse Proportion

Name: Date:

Do the following quantities vary Inversely or Directly?

1. The number of x men hired to construct a wall and the time y taken to finish the job.
2. The length x of a journey by bus and price y of the ticket.
3. Journey (x km) undertaken by a car and the petrol (y litres) consumed by it.
4. If 36 men can do a piece of work in 25 days, in how many days will 15 men do it?
5. A work force of 50 men with a contractor can finish a piece of work in 5 months. In how many months the same work can be completed by 125 men? months
6. A work-force of 420 men with a contractor can finish a certain piece of work in 9 months. How many extra men must he employ to complete the job in 7 months?
7. 1200 men can finish a stock of food in 35 days. How many more men should join them so that the same stock may last for 25 days?
8. In a hostel of 50 girls, there are food provisions for 40 days. If 30 more girls join the hostel, how long will these provisions last? days
9. 55 cows can graze a field in 16 days. How many cows will graze the same field in 10 days?
10. 18 men can reap a field in 35 days. For reaping the same field in 15 days, how many men are required?

