

Work and Time

1. A can work 5 times faster than B and takes 60 days less than B to complete the work. In how many days does A and B individually can complete the work?
2. If 24 men can finish a work in 10 days, then find the number of days required to complete the same work by 30 men?
3. 35 men can make 70 toys in 8 days by working 8 hours a day. How many days will 56 men need to make 84 toys by working 12 hours every day?
4. A can do a work in 3 days. B can do the same work in 6 days and C can do the same work in
5. P and Q together can do a work in 18 days. P alone can do the same work in 27 days. In how many days can Q alone do the same work?
6. P and Q can do a work in 12 days. Q and R can do the same work in 16 days, and R and P can do it in 24 days. Find the time in which P, Q and R can finish the work together.
7. If 12 men or 16 women can do a work in 172 days, how long will 21 men and 15 women to do the same work?
8. P can do a work in 30 days. Q is 25% more efficient than P in completing the same work. In how many days will Q complete the work?
9. If 3 men can do a work in 2 days and 4 boys can do the same work in 6 days, then in how many days will the same work be completed by 8 men and 8 boys?
10. Meena can do a piece of work in 20 days. Kumar can do it in 30 days. They start working together on the work but 10 days before the completion of the work, Kumar leaves. In how many days does the total work get completed?
11. Sita and Gita can do a work in 20 days and 25 days, respectively. Both begin together but after a few days, Sita leaves. Then Gita finishes the remaining work in 10 days. After how many days did Sita leave?
12. When P alone does a work, he takes 25 days more than the time taken by P and Q working together to complete the work. But Q alone takes 9 days more than the time taken by P and Q working together to complete the work. In what time, P and Q together finish this work?

Chain Rule / Unitary Method

1. 20 fishermen can catch 20 fish in 20 minutes. As per this, how many fish can 400 fishermen catch in 6 hours 40 minutes?
2. 40 boys working 9 hours per day paint a house in 96 days. How many hours per day 48 boys need to work so they can paint the house in 45 days?
3. 2500 children in a school had enough chocolates for 40 days. But some children never came to school and the chocolates lasted for 50 days. How many children never came to school?
4. In a palace, supplies are available for 35 days for only 75 people. 15 Guests arrive in the palace for vacation on day 1 itself. For how many days will these supplies be sufficient for all these people?
5. 4 women and 4 children start working together. How many days will they need to paint a house completely, if 3 women alone can paint the house in 18 days and 6 children too alone can do the same in 18 days?
6. Ramesh and Suresh start cleaning a pool together. They do it in 26 days but for the last 6 days only Ramesh was working. When Suresh works alone, in how much time will he completely clean the pool, if Ramesh and Suresh together can clean the pool in 24 days?
7. Posters stuck by a child is equal to the half the posters stuck by an adult. 20 adults and 16 children can stick all posters in 10 days. When 8 adults and 12 children start working together, in what time will they stick all the posters?
8. 12 pumps of one type pump 30 litres of water when each is running for 18 hours per day. But a set of 16 pumps of other type pump 40 litres of water when each is running for 24 hours per day. How efficient are former type of pumps than latter type?
9. 75 girls complete one-third decoration of a building in 40 hours. Now they have only 50 hours to complete the rest of the decoration. How many more girls are necessary to help them complete the task?
10. A tank has oxygen for 72 patients and can last for 54 hours for them. If patients reduce their oxygen consumption by 10%, then 90 patients can use this oxygen supply for how many hours?