

8th Unitary Method + Direct and Indirect Variation

CBSE TEST PAPER-1

- Q1. If 8 oranges cost Rs 10.40, how many oranges can be bought for Rs 33.80?
- Q2. A train covers 85 km in 1 and $\frac{1}{2}$ h. assuming that the speed of the train remains uniform, find the time required to cover a distance of 204 km.
- Q3. If a man earns Rs 805 per week. In how many days he will earn Rs 2070?
- Q4. If a car covers 102 km in 6.8 litres of petrol, how much distance will it cover in 24.2 litres of petrol?
- Q5. On a particular day, 200 US dollars are worth Rs 9666. On that day, how many dollars could be bought for Rs 5074.65?
- Q6. 20 iron rods of the same size weigh 240 kg. What will be the weight of 42 such iron rods?
- Q7. If x and y vary directly and $y = 20$ when $x = 4$, find y when $x = 6$.
- Q8. A machine takes 7 hours in cutting 168 tools. How many tools will it cut in 25 hours?
- Q9. 20 stamps of equal value cost Rs 24. How many stamps of the same value can be bought for Rs 60?
10. If the cost of 13 m of plastic rope is Rs 84.50, then what would it cost to buy 50 m of such plastic rope?
- Q11. If 32 men can reap a field in 15 days, in how many days can 20 men reap the same field?
- Q12. If 36 men can do a piece of work in 25 days, in how many days can 15 men do it?
- Q13. A garrison of 500 men had provision for 24 days. However a reinforcement of 300 men arrived. Now for how many days the food will last?
- Q14. A car can finish a certain journey in 9 h at the speed of 72 km/h. By how much should its speed be increased so that it may take only 8 hrs to cover the same distance?
- Q15. 12 men can dig a pond in 8 days. How many men can dig it in 6 days?
- Q16. 20 men produce 3000 articles in 12 days. How long should 15 men take?
- Q17. 4 people can finish a piece of work in 6 hours; how many can do it in 4 hours?
- Q18. 15 pumps can empty a reservoir in 24 hours. In how many hours can 45 such pumps do the same work?
- Q19. 8 taps having the same rate of flow fill a tank in 27 minutes. If two taps go out of order, how long will the remaining taps take to fill the tank?
- Q20. 12 men can repair a road in 28 days; how long will 84 men take to do so?