



# MATHS

## BOOKS - ICSE

### UNITARY METHOD

#### Solved Examples

1. If 15 dolls cost Rs 468, what do 35 dolls cost?



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2. If 2.5 litres of petrol costs Rs180, how much petrol will cost Rs 1728?



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3. If 25 men can weave 120 m of cloth in a day, how many metres of cloth will be woven by 35 men in a day?



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4. If 36 men can do a piece of work in 25 days, in how many days will 15 men do it?



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5. If 5 men can build a wall in 12 days, how many men can build it in 10 days?



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6. At a uniform speed of 54 km per hour, a car covers a certain distance in 50 minutes. How much time will it take to cover the same distance at 30 km per hour?



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7. A fort has provision of 150 men for 35 days. For how many days will it be sufficient for 125 men?



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## Exercise

1. 12 bags of rice having equal weights weigh 174 kg. How much will 20 such bags weigh?



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2. 8 kg of tomatoes cost 84. What is the cost of 14 kg of tomatoes?



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3. 16 m of cloth costs 2200. What is the cost of 6 m of cloth?



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4. If 8.5 m of a uniform rod weighs 30.6 kg, what will be the weight of 5 m of the same rod?



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5. The cost of 6 purses is 453. How many such purses can be bought for 604?



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6. 12 apples weigh 2 kg 500 g. How many apples will weigh 15 kg?



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7.  $55m$  of cloth is required to make 25 shirts.

How much cloth will be required to make 35

shirts of the same size?

A.  $73m$

B.  $77m$

C.  $79m$

D.  $81m$

**Answer: B**



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**8.** A scooter consumes 2.5 litres of petrol in covering a distance of 85 km. What distance will it cover in 8 litres of petrol?



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**9.** A journey of 124 km costs 1395. How much will a journey of 240 km cost?



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**10.** A compositor takes 1 hour 45 minutes to compose 24 pages of a book. How long will be take to compose 64 pages?



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**11.** If a man walks 16 km in 5 hours, how long would he take to walk 11.2 km?



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**12.** 5 men can paint a hall in 18 hours. How many men will be able to paint it in 10 hours?



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**13.** 30 workers can dig a trench in 5 days. How many workers will be required to dig it in 6 days?



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**14.** In a fort, 360 men had provisions for 21 days. If 60 more men join them, how long will the provisions last?



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**15.** In an army camp, 300 soldiers had provisions for 13 days. If 40 of them are transferred to the other camp, how long will the provisions last?



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**16.** Moving at the rate of 70 km/hr, a car completes a journey in 18 minutes. How long would it take to complete this journey, if the speed is increased to 84 km/hr?



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