

1. A train is moving at a uniform speed of  $100\text{km/h}$ . How far will it travel in 20 minutes?
2. If the cost of 20 books is ₹ 180, how much will 15 books cost?
3. If  $x_1 = 5, y_1 = 7.5, x_2 = 7.5$  then find  $y_2$  if  $x$  and  $y$  vary directly.
4. If  $3\text{kg}$  of sugar contains  $9 \times 10^8$  crystals. How many sugar crystals are there in  $4\text{kg}$  of sugar?
5. If 15 men can do a work in 12 days, how many men will do the same work in 6 days?
6. A train travels  $112\text{km}$  in 1 hour 30 minutes with a certain speed. How many kilometres it will travel in 4 hours 45 minutes with the same speed?
7. 15 men can build a wall in 42 hours, how many workers will be required for the same work in 30 hours?
8. Six pumps working together empty a tank in 28 minutes. How long will it take to empty the tank if 4 such pumps are working together?