Example 11 : If two cardboard boxes occupy 500 cubic centimetres space, then how much space is required to keep 200 such boxes?

6. By travelling at a speed of 48 kilometres per hour, a car can finish a certain journey in 10 hours. To cover the same distance in 8 hours, the speed of the car should be

(a) 60 km/h (b) 80 km/h (c) 30 km/h (d) 40 km/h

12. 100 persons had food provision for 24 days. If 20 persons left the place, the provision will last for

(a) 30 days

(b) $\dfrac{96}{5}$ days

(c) 120 days

(d) 40 days

33. The perimeter of a circle and its diameter vary _____ with each other.

34. A car is travelling 48 km in one hour. The distance travelled by the car in 12 minutes is _____.

63. If x varies inversely as y and $x = 20$ when $y = 600$, find y when $x = 400$.

70. A car covers a distance in 40 minutes with an average speed of 60 km/h. What should be the average speed to cover the same distance in 25 minutes?