Direct and Inverse Proportions: Worksheet -6

1. An electric pole, 14metres high, casts a shadow of 10metres. What will be the height of a tree that casts a shadow of 15 metres under similar conditions?   [   ]

   (i) 14 m   (ii) 20 m   (iii) 21 m   (iv) 24 m

2. A train is running at a speed of 75 km/hr. What distance will it cover in 20 minutes ?   [   ]

   (i) 15km   (ii) 20km   (iii) 23 km   (iv) 25 km

3. A machine manufactures 840 bottles in six hours. Find the number of bottles it can manufacture in five hours ?   [   ]

   (i) 600   (ii) 650   (iii) 700   (iv) 750

4. The scale of a map is given as 1:30000000 .If two cities are 4 cm apart on the map , what is the actual distance between them ?   [   ]

   `(i) 600 km   (ii) 1400 km   (iii) 1300 km   (iv) 1200 km

5.If 15 workers can build a wall in 48 hours, how many workers will be required to do the same work in 30 hours ?   [   ]

   (i) 15   (ii) 14   (iii) 24   (iv) 30

6. A car takes 2 hours to reach a destination by running at a speed of 60 km/hr. How long will it take when the car runs at a speed of 80 km/hr ?   [   ]

   (i) 1.5 Hrs   (ii) 1.4 Hrs.   (iii) 2.4Hrs.   (iv) 2.5Hrs.

7. 6 pipes are required to fill a tank in 1 hr 20 minutes. How long will it take if only 5 pipes of the same type are used ? [   ]

    (i)   2 hr36 minutes   (ii) 1 hr36 minutes

    (iii) 2 hours   (iv) 1 hr 30 minutes

8. If 5 people can do a piece of work in 20 days, how many people can do the same work in 2 days ? [   ]

    (i) 8   (ii) 50   (iii) 100   (iv) 200