

Direct and Inverse Proportions

Topic: Mixed Chapter

Name: Date:

1. A person has money to buy 25 cycles worth Rs. 500 each. How many cycles he will be able to buy if each cycle is costing Rs. 125 more?

2. Raghu has enough money to buy 75 machines worth Rs. 200 each. How many machines can he buy if he gets a discount of Rs. 50 on each machine?

If x and y vary inversely as each other and

3. $x = 3$ when $y = 8$, find y when $x = 4$

4. $x = 5$, when $y = 15$, find x when $y = 12$ (in fraction)

5. $x = 30$, find y when constant of variation = 900

6. $y = 35$, find x when constant of variation = 7 (in fraction)

7. A group of 3 friends staying together, consume 54 kg of wheat every month. Some more friends join this group and they find that the same amount of wheat lasts for 18 days. How many new members are there in this group now?

8. Three spraying machines working together can finish painting a house in 60 minutes. How long will it take for 5 machines of the same capacity to do the same job? minutes

9. 1200 soldiers in a fort had enough food for 28 days. After 4 days, some soldiers were transferred to another fort and thus the food lasted now for 32 more days. How many soldiers left the fort?

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

