

# MATHEMATICS

## CLASS – VIII

### Chapter-13

#### Direct & Inverse Proportion

#### Revision Questions



**ZERO  
PERIOD**  
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#### Section [A]

1. If  $x$  and  $y$  varies inversely as each other and  $x = 8$  when  $y = 10$ . Find  $y$  when  $x = 5$ .
2. If  $x$  and  $y$  varies directly as each other and  $x = 4$  when  $y = 16$ . Find  $y$  when  $x = 9$
3. 55 cows can graze a field in 16 days. How many cows will graze the same field in 10 days?
4. Rohit bought 12 registers for ₹ 156, find the cost of 7 such registers.

#### Section [B]

5. A farmer has enough food to feed 20 animals in his cattle for 6 days. How long would the food last if there were 10 more animals in his cattle.
6. A contractor estimates that 3 persons could rewire Mr. Kumar's house in 4 days. If, he uses 4 persons instead of three, how long should they take to complete the job?
7. Anita types 540 words in half an hour. What is her gross words a minute rate?
8. If 52 men can do a piece of work in 35 days, in how many days 28 men will do it?

#### Section [C]

9. Observe the following tables and find if  $x$  and  $y$  are directly proportional.

(i)

$x$	20	17	14	11	8	5	2
$y$	40	34	28	22	16	10	4

(ii)

$x$	6	10	14	18	22	26	30
$y$	4	8	12	16	20	24	28

(iii)

$x$	5	8	12	15	18	20
$y$	15	24	36	60	72	100

10. A group of 3 friends staying together consume 54kg of wheat every month. Some more friends join this group and then wheat lasts for 18 days. How many new members are there in this group now?
11. If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of the children is reduced by 4?
12. There are 100 students in a hostel. Food provision for them is for 20 days. How long will these provisions last, if 25 more students join the group?

#### Section [D]

13. If 9 men can prepare 135 boxes in 3 hours, how many men are needed to prepare 270 boxes in 1 hour?
14. 1200 men can finish a stock of food in 35 days. How many more men should join them so that the same stock may last for 25 days?
15. 6 pipes are required to fill a tank in 1 hr 20 min. How long will it take if only 5 pipes are used?
16. A train is moving at a uniform speed of 75 km/hour.  
(a) How far will it travel in 20 minutes ?      (b) Find the time required to cover a distance of 250 km.