



SHIKSHA CLASSES

Sub : Maths

Question Paper

Total Marks : 30

Class : VIII (CBSE)

11: Direct and Inverse Proportions

Time : 1 Hour

Section A (Each 1 Mark)

Select the most appropriate answer from the given options (MCQ'S - Q.1 to Q.5)

- Q.1 : 10 meters of cloth cost Rs. 1000. What will 4 meters cost?
a) Rs. 400 b) Rs.800 c) Rs.200 d) Rs.100
- Q.2 : A boy runs 1 km in 10 minutes. How long will he take to run 600 m?
a) 2 minutes b) 3 minutes c) 4 minutes d) 6 minutes
- Q.3 : A train travels 60km in 1 hour. How long will it take to go 150km?
a) 2 hours b) 3 hours c) 2.5 hours d) 4 hours
- Q.4 : If $x = ky$ and when $y=4$, $x=8$ then $k =$ _____
a) 1 b) 2 c) 3 d) 4
- Q.5 : The constant of variation, if $x \propto y$, from the following table is

x	6	12	15	21
y	2	4	5	7

- a) 1 b) 2 c) 3 d) 4

Fill in the blank. (Q.6 to Q.7)

- Q.6 : If $xy=1$ then x and y vary _____ with each other.
- Q.7 : If the weight of 10 sheets of an A - 4 size paper sheet is 30 g. Then _____ sheets of the same paper would weight 90 g.

Write whether the following statements are True or False. (Q.8 to Q.9)

- Q.8 : The distance travelled by CNG vehicle and the amount of CNG consumed are directly proportional.
- Q.9 : If two quantities p and q vary inversely, then pq remains constant.

Section B (Each 2 Marks)

- Q.10 : If x and y vary inversely as each other and $x=10$, When $y=6$. Find y when $x=15$.

OR

Rohit bought 12 registers for Rs. 156. Find the cost of 7 such registers.

Q.11 : The Scale of a map is given as 1:30000000. Two cities are 4cm a part on the map. Find the actual distance between them.

Section C (Each 3 Marks)

Q.12 : 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?

OR

A contractor estimates that 3 persons rewire Jasminder's house in 4 days if he uses 4 persons instead of three how long should they take to complete the job?

Q.13 : A car travels 432 km on 48 litres of petrol. How far would it travel on 20 litres of petrol?

Q.14 : A worker is paid Rs. 200 for 8 days work. If he works for 20 days, how much will he get?

Section D (Each 4 Marks)

Q.15 : 100 persons had food provision for 24 days if 20 persons left the place, then in how many days the provision will last.

OR

The mass of an aluminium rod varies directly with its length. If a 16 cm long rod has a mass of 192g. Find the length of the rod whose mass is 105g.

Q.16 : If 56 men can do a piece of work in 42 days. How many men will do it in 14 days?

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