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Instructor: Adil Aslam Subject: Mathematics Class 7 Chapter: 6

Exercise 6

1. Write direct or inverse variations against the following statements:

i. The number of pencils bought and their cost.
Answer: Direct Variation

ii. The number of men on a job and days require to complete it.
Answer: Inverse Variation

iii. The speed of a car and time taken to cover a given distance.
Answer: Inverse Variation

iv. The distance covered and time taken by a car moving at constant speed.
Answer: Direct Variation

2. The total cost of 10 lottery tickets is Rs. 20. Find the cost of 25 such tickets.

Solution:

Let the require cost of lottery tickets be Rs. x

We see that as the amount increases the number of lottery tickets also increases. So it is direct proportion.

Tickets	Cost in rupees
10	20
25	x

As the proportion is direct, so

$$\frac{25}{10} = \frac{x}{20}$$

$x(10) = 20 \times 25$ \therefore By Cross Multiplication

$$10x = 500$$
$$x = \frac{500}{10}$$
$$x = \text{Rs. } 50$$

Thus, cost of 25 lottery tickets = Rs. 50

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