



Subject: Math

MM: 20

Time Allowed: 60 minutes.

1. Fill in the blanks: [2]

a. $x + x + x + \dots$ (y times) =

b. $x^3 \times 4xy^2 \times \frac{3}{2}xy^3 = \dots\dots\dots$

2. Write the following statements in symbolic form: [2]

a. A number is doubled and added to 6, the result is equal to 14.

b. The sum of a number and three fifths of the number is equal to 24.

3. If $x = 2, y = 5$ and $z = 3$, find the value of: [2]

a. $4x^2y^3z^5$

b. $\frac{2x+3y}{4x-3y}$

4. The score of Ishita in math is 25 more than two thirds of her score in science.

If she scored x marks in science, determine her score in math. [2]

5. Ahmed starts from Delhi at 9 AM to Jaipur. If his car is running at the speed of $2x$ km/h and at 4 PM he observes that he is 35 km away from Jaipur. Find the distance between Delhi and Jaipur. [2]

6. Rohan spends Rs. x daily and saves Rs. y per week. What is his income after 5 weeks? [2]

7. One pencil costs Rs. 2 and one fountain pen costs Rs. 30. What is the cost of x pencils and z fountain pens? [2]

8. Ajay buys 8 cookies costing Rs. p each. If he gives the shopkeeper Rs. 50, how much change he gets back? [2]

9. The area of a rectangle is given by the product of its length and breadth. The length of a rectangle is two-thirds of its breadth. Find its area if its breadth is x cm. [2]

10. In a room, if there are x^2 rows of chairs and each row contains $2x^3$ chairs. Find the total number of people that can sit in the room, if each chair can accommodate $3y$ persons. [2]