

Mathematics Question Paper

Grade: 7 Topics: One-Variable Algebraic Equations & Fractions

Section A: One-Variable Algebraic Equations - [15 Marks]

1. Solve: $x + 9 = 16$
2. Solve: $4x = 28$
3. Solve: $x - 7 = 11$
4. Solve: $3x + 5 = 20$
5. Solve: $5x - 10 = 15$

Section B: Word Problems (Equations) - [9 Marks]

6. A number minus 4 equals 9. Find the number.
7. The sum of a number and its triple is 40. Find the number.
8. If you double a number and subtract 3, the result is 11. Find the number.

Section C: Fractions (Add, Subtract, Multiply, Divide) - [10 Marks]

9. Simplify: $\frac{3}{4} + \frac{2}{5}$
10. Simplify: $\frac{5}{6} - \frac{1}{3}$
11. Multiply: $\frac{2}{3} \times \frac{4}{7}$
12. Divide: $\frac{5}{8} \div \frac{3}{4}$
13. Simplify: $(\frac{1}{2} + \frac{3}{4}) - \frac{2}{5}$

Section D: Word Problems (Fractions) - [6 Marks]

14. Rani ate $\frac{2}{5}$ of a cake. Her friend ate $\frac{1}{4}$ of it. What fraction of the cake is left?
15. A water tank is $\frac{3}{4}$ full. After using $\frac{1}{3}$ of the water, how much water remains?

Instructions:

- Show all steps clearly.

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- *Use proper methods for fractions.*
- *Write your final answers neatly.*
- *Time: 1 Hour*
- *Total Marks: 40*