

Grade 7 - Mathematics Question Paper

Time: 1 Hour Total Marks: 40

Topics: Fractions & One-Variable Algebraic Equations

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

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

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

6. A jug is filled with $\frac{5}{6}$ liter of water. If $\frac{1}{4}$ liter is poured out, how much water is left in the jug?
7. Riya read $\frac{3}{5}$ of a book on Monday and $\frac{2}{7}$ of it on Tuesday. What fraction of the book is yet to be read?

Section C: Algebraic Equations (One Variable) - [12 Marks]

8. Solve: $2x + 5 = 17$
9. Solve: $\frac{x}{4} - 3 = 5$
10. Solve: $\frac{(3x - 2)}{5} = 4$
11. Solve: $-2x + \frac{1}{3} = \frac{5}{6}$

Section D: Word Problems (Algebraic Equations & Shapes) - [12 Marks]

12. The perimeter of a triangle is 60 cm. If two sides are 18 cm and 22 cm, and the third side is x , write and solve the equation to find the value of x .
13. The length of a rectangle is 3 cm more than its width. If the perimeter is 34 cm, find the length and width using an algebraic equation.
14. The sum of three times a number and 5 is equal to 29. Find the number.

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Instructions

Instructions:

- Write all steps clearly.
- Simplify all answers where possible.
- Draw diagrams for shape-related questions if needed.