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Class 8 Mathematics – Worksheet 1

Chapter 2: Linear Equations in One Variable

Topic: Introduction and Basic Problems

Section A: Basic Concepts (1 Mark Each)

1. Solve the following equations:

a) 3x - 7 = 8

b) 5y + 2 = 17

- 2. Fill in the blanks:
 - a) A linear equation in one variable has only _____ solution(s).
- b) 4x 5 = 7 is an example of a _____ equation.
- 3. State whether the following statements are True or False:
 - a) The equation 2x + 1 = 7 has the solution x = 4.
- b) x = -3 is the solution to 2x + 6 = 0.

Section B: Simplification (2 Marks Each)

- 1. Simplify and solve:
 - a) 7x 3 = 2x + 12
 - b) 4(x-2) + 5 = 3x + 7
- 2. Find the value of x:
- a) (2x + 3)/4 = 5
- b) 9 5x = 4x + 2

Section C: Word Problems (3 Marks Each)

1. The sum of a number and 8 is 20. Find the number.

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2. The difference between twice a number and 3 is 13. Find the number.

3. A father's age is three times his son's age. If the sum of their ages is 48, find their ages.

4. If 5 is subtracted from three times a number, the result is 16. Find the number.

Section D: Higher-Order Thinking Skills (HOTS) (5 Marks Each)

1. A basket contains apples and oranges. The total number of fruits is 50. If the number of apples is 3 times the number of oranges, find how many apples and oranges are there.

2. The perimeter of a rectangle is 50 cm. The length is 5 cm more than twice the width. Find the dimensions of the rectangle.

3. A train travels 60 km/hr. The train covers a certain distance in 4 hours. If the speed of the train is reduced by 10 km/hr, it will take 5 hours to cover the same distance. Find the distance.

• End of Worksheet

🚣 Practice well and attempt all sections carefully.

