Grade 7 - First Unit Test

Practice Paper 1

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - 1st Quarter

Instructions:

- Duration: 1 hour
- Maximum marks: 20
- All questions are compulsory
- Show all your working clearly

Section A: Rational Numbers and Integers (8 Marks)

1. Solve the following: **[4 marks]**

a) Add: (-15) + 8 = _____

b) Subtract: 10 - (-4) = _____

c) Multiply: (-6) × 9 = _____

d) Divide: (-42) ÷ (-7) = _____

2. Answer the following: **[4 marks]**

a) Write the rational number for "three-fourths". = _____

b) Convert 2.5 into a rational number (fraction). = _____

c) Write the additive inverse of -12. = _____

d) Compare using >, <, or =: -9 ___ -1

Section B: Indices and Algebraic Expressions (6 Marks)

3. Solve the following using laws of indices: **[3 marks]**

a) $2^3 \times 2^4$ = _____

b) $5^7 \div 5^2$ = _____

c) $(3^2)^3$ = _____

4. Solve the following algebraic expressions: **[3 marks]**

a) Add: (3x + 2y) + (5x - y) = _____

b) Subtract: (7a + 4b) - (3a + 2b) = _____

c) Identify the like terms in: 2x, 3xy, -5x, 7y = _____

Section C: Simple Equations and Geometry (6 Marks)

5. Solve the following simple equations: **[3 marks]**

a) x + 5 = 12. Find x. = x = _____

b) 3y = 18. Find y. = y = _____

c) p/4 = 5. Find p. = p = _____

6. Answer the following geometry questions: **[3 marks]**

a) If two angles are complementary and one is 40°, find the other. = _____ °

b) If two angles are supplementary and one is 100°, find the other. = _____ °

c) Draw a rough sketch of a pair of vertically opposite angles.

End of Practice Paper 1