Grade 7 - Second Unit Test

Practice Paper 1

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - 2nd Quarter

Instructions:

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

Section A: Operations on Rational Numbers (8 Marks)

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

a) Add: 3/4 + (-1/2) = _____

b) Subtract: 5/6 - 1/3 = _____

c) Multiply: (-2/3) × (4/5) = _____

d) Divide: (3/7) ÷ (-6/14) = _____

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

a) Write the reciprocal of -5/9. = _____

b) Is 0 a rational number? (Yes/No) = _____

c) Convert 1.8 into a rational number (fraction in simplest form). = _____

d) Find the value of $(-1)^{100}$. = _____

Section B: Simple Equations and Lines & Angles (6 Marks)
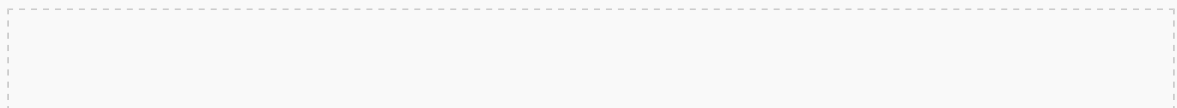
3. Solve the following simple equations: **[3 marks]**

a) 2x + 3 = 11. Find x. = x = _____

b) 5y - 2 = 13. Find y. = y = _____

c) (p/3) - 1 = 4. Find p. = p = _____
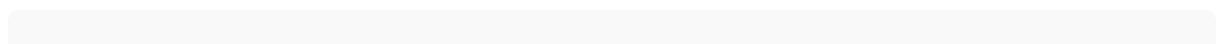
4. Answer the following geometry questions: **[3 marks]**

a) If two parallel lines are intersected by a transversal, what is the relationship between alternate interior angles? = _____

b) If angle A and angle B are complementary and angle A = 30°, find angle B. = _____ °

c) Draw a rough sketch of a pair of corresponding angles formed by a transversal intersecting two lines.

Section C: Properties of Triangles (6 Marks)

5. Answer the following triangle questions: **[3 marks]**

a) What is the sum of interior angles of a triangle? = _____ °

b) If two angles of a triangle are 50° and 60°, find the third angle. = _____ °

c) In a right-angled triangle, what is the measure of the right angle? = _____ °

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

a) Can a triangle have two obtuse angles? (Yes/No) = _____

b) If the three sides of a triangle are 3 cm, 4 cm, and 5 cm, what type of triangle is it based on sides? = _____ triangle

c) Draw a rough sketch of an isosceles triangle.

End of Practice Paper 1