Grade 7 - Second Unit Test

Practice Paper 2

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: (-2/3) + (1/6) = _____

b) Subtract: 7/8 - 1/4 = _____

c) Multiply: (3/4) × (-8/9) = _____

d) Divide: (-5/12) ÷ (10/24) = _____

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

a) Write the reciprocal of 7/-11. = _____

b) What is the product of a rational number and its reciprocal? = _____

c) Convert 0.125 into a rational number (fraction in simplest form). = _____

d) Find the value of $(-1)^{101}$. = _____

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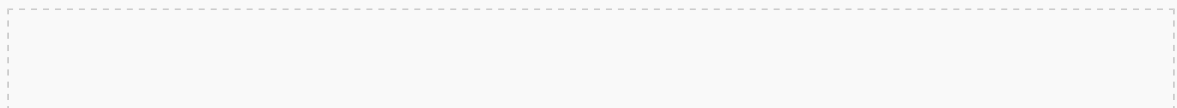
3. Solve the following simple equations: **[3 marks]**

a) 4a - 5 = 15. Find a. = a = _____

b) 6b + 4 = 22. Find b. = b = _____

c) (q/5) + 2 = 6. Find q. = q = _____
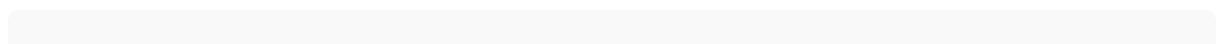
4. Answer the following geometry questions: **[3 marks]**

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

b) If angle P and angle Q are supplementary and angle P = 120°, find angle Q. = _____ °

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

Section C: Properties of Triangles (6 Marks)

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

a) The exterior angle of a triangle is equal to the sum of the two _____ opposite interior angles.

b) If two angles of a triangle are 45° and 45°, find the third angle. = _____ °

c) In an isosceles triangle, if two sides are equal, the angles _____ to these sides are also equal.

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

a) Can a triangle have angles 60°, 70°, and 50°? (Yes/No) = _____

b) If the three sides of a triangle are 6 cm, 6 cm, and 8 cm, what type of triangle is it based on sides? = _____ triangle

c) Draw a rough sketch of a right-angled triangle.

End of Practice Paper 2