Grade 6 - 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: Integers and Fractions (8 Marks)

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

a) $(-8) \times 4 =$ _____

b) $(-20) \div (-5) =$ _____

c) $10 + (-6) =$ _____

d) $(-7) - 3 =$ _____

2. Solve the following fraction operations: **[4 marks]**

a) $1/5 \times 10/11 =$ _____

b) 4/9 ÷ 2/3 = _____

c) Add: 3 1/4 + 1 1/2 = _____

d) Subtract: 4 2/3 - 2 1/9 = _____

Section B: Ratio, Proportion and Algebra (6 Marks)

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

a) Write the ratio of 50 cm to 2 meters in simplest form. = _____

b) Are the ratios 3:4 and 6:8 in proportion? (Yes/No) = _____

c) Find the value of 'y' in the proportion 4:y :: 12:15. = y = _____

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

a) Write the expression for "twice a number p increased by 7". = _____

b) If a = 5, find the value of 3a - 4. = _____

c) Solve for q: q - 4 = 9. = q = _____

Section C: Geometry and Measurement (6 Marks)

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

a) What is the sum of angles on a straight line? = _____ degrees

b) If two angles are complementary and one angle is 35 degrees, what is the measure of the other angle? = _____ degrees

c) Draw a rough sketch of vertically opposite angles.

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

a) Find the perimeter of a rectangle with length 15 cm and width 8 cm. = _____ cm

b) Find the area of a square with side length 9 cm. = _____ sq cm

c) Convert 5000 sq cm to sq meters. = _____ sq meters

End of Practice Paper 2