

# 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:  $(-6) \times 9 =$  \_\_\_\_\_

d) Divide:  $(-42) \div (-7) =$  \_\_\_\_\_

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)

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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)

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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  $p$ . =  $p =$  \_\_\_\_\_

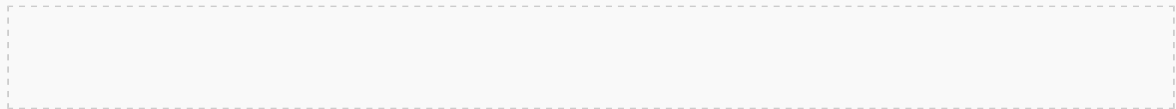
6. Answer the following geometry questions:

**[3 marks]**

a) If two angles are complementary and one is  $40^\circ$ , find the other. = \_\_\_\_\_ $^\circ$

b) If two angles are supplementary and one is  $100^\circ$ , find the other. = \_\_\_\_\_ $^\circ$

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



*End of Practice Paper 1*

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