

Grade 6 - 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: Integers and Fractions (8 Marks)

1. Solve the following integer operations:

[4 marks]

a) $(-5) \times (-3) =$ _____

b) $12 \div (-4) =$ _____

c) $(-9) + 5 =$ _____

d) $6 - (-2) =$ _____

2. Solve the following fraction operations:

[4 marks]

a) $2/3 \times 1/4 =$ _____

b) $\frac{3}{5} \div \frac{6}{10} = \underline{\hspace{2cm}}$

c) Add: $1\frac{1}{2} + 2\frac{1}{4} = \underline{\hspace{2cm}}$

d) Subtract: $3\frac{1}{3} - 1\frac{1}{6} = \underline{\hspace{2cm}}$

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

3. Answer the following:

[3 marks]

a) Write the ratio of 15 minutes to 1 hour in simplest form. = $\underline{\hspace{2cm}}$

b) Are the ratios 2:3 and 4:6 in proportion? (Yes/No) = $\underline{\hspace{2cm}}$

c) Find the value of 'x' in the proportion $5:10 :: x:20$. = $x = \underline{\hspace{2cm}}$

4. Solve the following algebraic expressions/equations:

[3 marks]

a) Write the expression for "5 less than a number y". = $\underline{\hspace{2cm}}$

b) If $x = 3$, find the value of $2x + 5$. = $\underline{\hspace{2cm}}$

c) Solve for p: $p + 7 = 12$. = $p = \underline{\hspace{2cm}}$

Section C: Geometry and Measurement (6 Marks)

5. Answer the following geometry questions:

[3 marks]

a) What is the sum of angles in a triangle? = $\underline{\hspace{2cm}}$ degrees

b) If two angles form a linear pair and one angle is 70 degrees, what is the measure of the other angle? = $\underline{\hspace{2cm}}$ degrees

c) Draw a rough sketch of adjacent angles.

6. Calculate the following:

[3 marks]

a) Find the area of a rectangle with length 10 cm and width 5 cm. = _____ sq
cm

b) Find the perimeter of a square with side length 7 cm. = _____ cm

c) How many square meters are there in 1 hectare? = _____ sq meters

End of Practice Paper 1

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