Grade 7 - Final Exam

Practice Paper 1

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - Full Syllabus

Instructions:

• Duration: 2 hours

• Maximum marks: 50

• All questions are compulsory

• Show all your working clearly

Section A: Rational Numbers and Integers (10 Marks)

1. Solve the following:

[5 marks]

2. Solve the following operations on rational numbers:

[5 marks]

e) Convert 3.25 into a rational number (fraction in simplest form). = _____

Section B: Indices and Algebraic Expressions (10 Marks)

3. Solve the following using laws of indices:

[5 marks]

a)
$$5^2 \times 5^6 =$$

b)
$$10^9 \div 10^4 =$$

c)
$$(7^3)^5 =$$

d)
$$(a^4)^3 =$$

- e) Write 64 in index form with base 4. = _____
- 4. Solve the following algebraic expressions:

[5 marks]

a) Add:
$$(5x + 3y) + (2x - 4y) =$$

c) Simplify:
$$3(p + 2) + 4p = _____$$

d) Find the value of $2m^2 + 3m - 1$ when m = 2. = _____

e) Identify the coefficient of y in the term -7xy. = _____

Section C: Simple Equations and Geometry (10 Marks)

_	Salva	tho	following	cimplo	equations:
ວ.	SUIVE	เมเษ	TOHOWING	Simple	equalions.

[5 marks]

6. Answer the following g	geometry questions:
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[5 marks]

- a) If two lines intersect, the sum of adjacent angles is _____ degrees.
- b) If two angles are complementary and one is 35°, find the other. = _____ °
- c) If two angles are supplementary and one is 140°, find the other. = $___$ °
- d) What is the relationship between alternate interior angles when a transversal intersects two parallel lines? = _____
- e) Draw a rough sketch of a pair of vertically opposite angles and mark them.

Section D: Properties of Triangles and Basic Measurement (20 Marks)

7. Answer the following triangle questions: [5 marks]							
a) What is the sum of interior angles of a triangle? = $___$ °							
b) If the angles of a triangle are 40°, 70°, and x° , find $x_{\circ} = x =^{\circ}$							
c) In a right-angled triangle, the side opposite the right angle is called the							
d) If two sides of a triangle are 6 cm and 8 cm, the third side must be between cm and cm.							
e) Can a triangle have angles 50°, 60°, 80°? (Yes/No) =							
8. Calculate the perimeter and area of the following shapes: [5 marks]							
a) A square with side 10 cm. = Perimeter: cm, Area: sq cm							
b) A rectangle with length 20 cm and width 8 cm. = Perimeter: cm, Area: sq cm							
9. Convert the following measurements: [5 marks]							
a) 5 km to meters. = m							
b) 2.5 liters to milliliters. = ml							
c) 3 kg 200 g to grams. = g							
d) 1 hour 45 minutes to minutes. = minutes							
e) 800 paise to rupees. = ₹							

10. Word Problems:	[5 marks]
a) The sum of two integers is -10. If one integer is 4, find the other intege	r. =
	
b) A shopkeeper bought a book for ₹200 and sold it for ₹250. Find the pro	ofit. =
c) A recipe requires 1/2 cup of sugar. If you want to make half the recipe, much sugar do you need? = cup	how
d) If the temperature is -2°C and it rises by 5°C, what is the new temperature of C	ture? =
e) A train travels at a speed of 70 km/hr. How much distance will it cover i hours? = km	in 3

End of Practice Paper 1

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