Grade 8 - 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: Expansion Formulae (8 Marks)

1. Expand the following:

[4 marks]

a)
$$(x + 5)^2 =$$

2. Expand the following:

[4 marks]

- b) (3x + 5)(3x 5) =_____
- c) (y + 1)(y + 3) =_____
- d) (a 4)(a 2) = _____

Section B: Factorisation of Algebraic Expressions (6 Marks)

3. Factorise the following:

[3 marks]

- a) 4x + 8 = _____
- b) 3a² 6a = _____
- c) 5p²q + 10pq² = _____
- 4. Factorise the following using identities:

[3 marks]

- a) x² 25 = _____
- b) y² + 6y + 9 = _____
- c) a² 10a + 25 = _____

Section C: Division of Algebraic Expressions and Statistics (6 Marks)

5. Divide the following:

[3 marks]

- a) $(6x^2 + 4x) \div 2x =$ _____
- b) $(10a^3 15a^2) \div 5a^2 =$ _____

c)
$$(y^2 - 4) \div (y - 2) =$$

6. Answer the following statistics questions:

[3 marks]

- a) Find the mean of the data: 10, 20, 30, 40, 50. = _____
- b) What is the mode of the data: 5, 7, 8, 7, 5, 7, 6? = _____
- c) Find the median of the data: 1, 3, 5, 7, 9. = _____

End of Practice Paper 1

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