

Grade 8 - 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: Expansion Formulae (8 Marks)

1. Expand the following:

[4 marks]

a) $(y + 7)^2 =$ _____

b) $(b - 6)^2 =$ _____

c) $(4x + 3)^2 =$ _____

d) $(5m - 2)^2 =$ _____

2. Expand the following:

[4 marks]

a) $(p + 4)(p - 4) =$ _____

b) $(2a + 3)(2a - 3) = \underline{\hspace{2cm}}$

c) $(x + 5)(x + 2) = \underline{\hspace{2cm}}$

d) $(b - 1)(b - 5) = \underline{\hspace{2cm}}$

Section B: Factorisation of Algebraic Expressions (6 Marks)

3. Factorise the following:

[3 marks]

a) $5y - 10 = \underline{\hspace{2cm}}$

b) $7b^2 + 14b = \underline{\hspace{2cm}}$

c) $6m^3n^2 - 12m^2n^3 = \underline{\hspace{2cm}}$

4. Factorise the following using identities:

[3 marks]

a) $a^2 - 49 = \underline{\hspace{2cm}}$

b) $p^2 + 10p + 25 = \underline{\hspace{2cm}}$

c) $y^2 - 8y + 16 = \underline{\hspace{2cm}}$

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

5. Divide the following:

[3 marks]

a) $(8a^2 - 12a) \div 4a = \underline{\hspace{2cm}}$

b) $(15x^4 + 20x^3) \div 5x^3 = \underline{\hspace{2cm}}$

c) $(p^2 - 9) \div (p + 3) = \underline{\hspace{2cm}}$

6. Answer the following statistics questions:

[3 marks]

a) Find the mean of the data: 5, 10, 15, 20, 25, 30. =

b) What is the mode of the data: 10, 12, 10, 15, 12, 10? =

c) Find the median of the data: 2, 4, 6, 8, 10, 12. =

End of Practice Paper 2

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