

Grade 8 - Second Unit Test

Answer Keys

Practice Papers 1 & 2

Mathematics

Based on Maharashtra Board Syllabus (NEP 2025-26) - 2nd Quarter

Note:

This document contains the answer keys for Second Unit Test Practice Paper 1 and Practice Paper 2.

Practice Paper 1 - Answer Key

Section A: Expansion Formulae

1. a) $x^2 + 10x + 25$

1. b) $a^2 - 6a + 9$

1. c) $4y^2 + 4y + 1$

1. d) $9p^2 - 24p + 16$

2. a) $m^2 - 4$

2. b) $9x^2 - 25$

2. c) $y^2 + 4y + 3$

2. d) $a^2 - 6a + 8$

Section B: Factorisation of Algebraic Expressions

3. a) $4(x + 2)$

3. b) $3a(a - 2)$

3. c) $5pq(p + 2q)$

4. a) $(x - 5)(x + 5)$

4. b) $(y + 3)^2$

4. c) $(a - 5)^2$

Section C: Division of Algebraic Expressions and Statistics

5. a) $3x + 2$

5. b) $2a - 3$

5. c) $y + 2$

6. a) 30 (Sum = 150, Count = 5, Mean = $150/5$)

6. b) 7

6. c) 5

Practice Paper 2 - Answer Key

Section A: Expansion Formulae

1. a) $y^2 + 14y + 49$

- 1. b) $b^2 - 12b + 36$
- 1. c) $16x^2 + 24x + 9$
- 1. d) $25m^2 - 20m + 4$
- 2. a) $p^2 - 16$
- 2. b) $4a^2 - 9$
- 2. c) $x^2 + 7x + 10$
- 2. d) $b^2 - 6b + 5$

Section B: Factorisation of Algebraic Expressions

- 3. a) $5(y - 2)$
- 3. b) $7b(b + 2)$
- 3. c) $6m^2n^2(m - 2n)$
- 4. a) $(a - 7)(a + 7)$
- 4. b) $(p + 5)^2$
- 4. c) $(y - 4)^2$

Section C: Division of Algebraic Expressions and Statistics

- 5. a) $2a - 3$
- 5. b) $3x + 4$
- 5. c) $p - 3$
- 6. a) 17.5 (Sum = 105, Count = 6, Mean = $105/6$)
- 6. b) 10
- 6. c) 7 (Data sorted: 2, 4, 6, 8, 10, 12. Median is average of 6 and 8)

End of Answer Keys

