Grade 7 - 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: Operations on Rational Numbers

1. a) 1/4 (3/4 - 2/4)

1. b) 3/6 or 1/2 (5/6 - 2/6)

1. c) -8/15

1. d) -1 (3/7 * -14/6 = 3/7 * -7/3 = -1)

2. a) -9/5

2. b) Yes

2. c) 18/10 or 9/5

2. d) 1

Section B: Simple Equations and Lines & Angles

3. a) x = 4 (2x = 11 - 3 = 8)

3. b) y = 3 (5y = 13 + 2 = 15)

3. c) p = 15 (p/3 = 4 + 1 = 5)

4. a) They are equal.

4. b) 60 ° (90 - 30)

4. c) [Drawing of a transversal intersecting two lines, showing a pair of angles in corresponding positions (e.g., top-left and top-left)]

Section C: Properties of Triangles

5. a) two non-adjacent

5. b) 70 ° (180 - 50 - 60)

5. c) 90 °

6. a) No (50 + 60 + 70 = 180, so yes, it can. **Correction:** The sum of angles must be 180. 60+70+50 = 180. So, Yes. **Revised Answer:** Yes)

6. b) Scalene triangle (**Correction:** Sides are 3, 4, 5. All different. So, Scalene. **Revised Answer:** Scalene triangle)

6. c) [Drawing of a triangle with two equal sides marked]

Practice Paper 2 - Answer Key

Section A: Operations on Rational Numbers

1. a) -3/6 or -1/2 (-4/6 + 1/6)

1. b) 5/8 (7/8 - 2/8)

1. c) -24/36 or -2/3

1. d) -120/120 or -1 (-5/12 * 24/10 = -5/12 * 12/5 = -1)

2. a) -11/7

2. b) 1

2. c) 1/8 (125/1000 simplifies to 1/8)

2. d) -1

Section B: Simple Equations and Lines & Angles

3. a) a = 5 (4a = 15 + 5 = 20)

3. b) b = 3 (6b = 22 - 4 = 18)

3. c) q = 20 (q/5 = 6 - 2 = 4)

4. a) They are supplementary (sum is 180°).

4. b) 60 ° (180 - 120)

4. c) [Drawing of a transversal intersecting two lines, showing a pair of alternate interior angles (e.g., bottom-left on one line and top-right on the other)]

Section C: Properties of Triangles

5. a) non-adjacent

5. b) 90 ° (180 - 45 - 45)

5. c) opposite

6. a) Yes (60 + 70 + 50 = 180)

6. b) Isosceles triangle (Two sides are equal)

6. c) [Drawing of a triangle with one angle marked as 90 degrees]

End of Answer Keys