SECTION – A

1. The additive inverse of the \(-\frac{7}{19}\) is _____
   (a) \(\frac{19}{7}\)  (b) \(\frac{7}{19}\)  (c) \(-\frac{7}{19}\)  (d) 0

2. The product of \(\frac{6}{13}\) and the reciprocal of \(-\frac{7}{16}\) is ___
   (a) \(-\frac{96}{91}\)  (b) \(\frac{96}{91}\)  (c) \(\frac{91}{96}\)  (d) \(-\frac{42}{16}\)

3. The solution of \(\frac{3}{7} + x = \frac{17}{7}\) is __________
   (a) \(x = 14\)  (b) \(x = 2\)  (c) \(x = 10\)  (d) \(x = 4\)

4. RICE is a Rhombus. The value of \(x\) in the figure is __________
   (a) 5  (b) 12  (c) 13  (d) 10

5. The name of the regular polygon of four sides is __________
   (a) Triangle  (b) Square  (c) Rectangle  (d) parallelogram

SECTION – B

6. Find 3 rational numbers between \(\frac{1}{4}\) and \(\frac{1}{2}\)

7. Solve \(\frac{8x-3}{3x} = 2\)
8. Find the angle measure \( x \) in the following figure.

9. Some of two numbers is 95. If one exceeds the other by 15, find the number.

**SECTION-C**

10. Represent \(-\frac{2}{11}, -\frac{5}{11}\) on the number line.

11. The sum of three consecutive multiples of 8 is 888. Find the multiples.

12. The ages of Hari and Harry are in the ratio 5:7. Four years from now the ratio of their ages will be 3:4. Find their present ages.

13. Find \( \frac{-4}{5} \times \frac{3}{7} \times \frac{15}{16} \times X = \frac{-14}{9} \)

14. In a Parallelogram RING, if \( m \angle R = 70^\circ \), find all the other angles.

**SECTION-D**

15. Using appropriate properties, find \( \frac{2}{5} X - \frac{3}{7} = -\frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5} \)

16. Arjun is twice as old as Shriya. Five years ago his age was three times Shriya’s age. Find their present ages.

17. The adjacent figure HOPE is a Parallelogram. Find the angle measures \( x, y, \) and \( z \) State the properties used to find them.

Identify all the quadrilaterals that have (a) 4 sides of equal length (b) 4 Right angles and show them with figures.
SECTION – A

1. b
2. a
3. b
4. a
5. b

SECTION – B

6. For making denominator same ½ mark
   For writing 3 rational nos. 1 ½ mark
7. \(8x - 3 = 6x\) cross multiplication ½ mark
   For correct steps & for correct answer 1 ½ mark
8. For some of four angles in a quadrilateral is 360° ½ mark
   For correct steps and for finding value of x 1 ½ mark
9. Forming two numbers --- x, x+15 1 mark
   Finding the numbers 1 mark

SECTION – C

10. For drawing number line 1 mark
    For correct representation 2 marks

11. If x is a multiple of 8, the next multiples are x+8 and x+16 1 mark
    \(X + (x+8) + (x+16) = 888\)
    For solving x ½ mark
    X = 288, x+8 = 296, x+16 = 304 1 ½ marks

12. Let the ages of Hari & Harry are 5x, 7x 1 mark
    According to the problem, \((5x + 4) ÷ (7x + 4) = \frac{3}{4}\) 1 mark
    For solving and correct answer 1 mark
13. For simplification & correct answer each 1 mark

Answer is $\frac{1}{2}$

14. LR = LN = 70° (Opposite angles of a parallelogram) 1 mark
LR and LI are (supplementary angles) 1 mark
LI = 180° – 70° = 110° 1 mark

SECTION – D

15. For each correct simplification and correct property 1 mark each

16. Let the age of Shriya is $x$ years. ½ mark
   Age of Arjun 2x years 1 mark
   ATP. 2x - 5 = 3 (x-5) 1 mark
   For finding x and correct answer 1 ½ marks

17. $40° + z = 70°$ (corresponding angles of parallel lines HE & OP) 1 ½ mark
   $z = 30°$
   $Y = 40°$ (Alternate interior opposite angles of parallel lines HO & EP) 1 mark
   Linear pair 180° – 70° = 110° ½ mark
   Therefore $x = 110°$ (Opp. Angles of parallelogram are equal) 1 mark

(OR)
Ans: Square and Rhombus including figures 2 marks
    Square and Rectangle including figures 2 marks