

Marks: 40 Class: VIII

Sub: MATHEMATICS Duration: 90 Minutes

Instructions:

All questions are compulsory. Section A contains 5 questions of 1 mark each, Section B contains 4 questions of 2 marks each, Section C contains 5 questions of 3 marks each and Section D contains 3 questions of 4 marks each.

<u>SECTION – A</u>

1. The additive inverse of the $-\frac{7}{19}$ is _____

(a)
$$\frac{19}{7}$$

(b)
$$\frac{7}{19}$$

(a)
$$\frac{19}{7}$$
 (b) $\frac{7}{19}$ (c) $-\frac{7}{19}$ (d) 0

()

2. The product of 6/13 and the reciprocal of $-\frac{7}{16}$ is ____

(a)
$$-\frac{96}{91}$$
 (b) $\frac{96}{91}$ (c) $\frac{91}{96}$ (d) $-\frac{42}{16}$

(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

(a)
$$x = 14$$

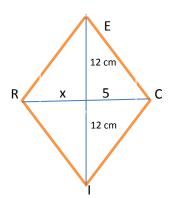
(b)
$$x = 2$$

(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

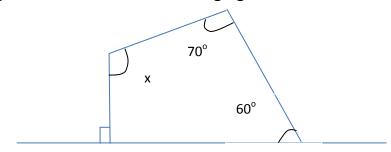
SECTION – B

6. Find 3 rational numbers between ¼ and ½

7. Solve
$$\frac{8x-3}{3x} = 2$$

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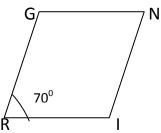
8. Find the angle measure x in the following figure.



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

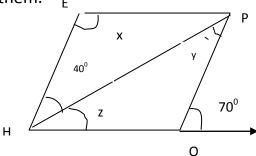
SECTION-C

- 10. Represent -2/11 ,-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 $\frac{-4}{5} X \frac{3}{7} X \frac{15}{16} X \frac{14}{9}$
- 14. In a Parallelogram RING, if m LR =70°, find all the other angles.



SECTION-D

- 15. Using appropriate properties , find $\frac{2}{5}X \frac{3}{7} \frac{1}{6}X\frac{3}{2} + \frac{1}{14}X\frac{2}{5}$
- 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. $_{\rm E}$



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



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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.	1½ 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	1½ mark
9.	Forming two numbers x, x+15	1 mark
	Finding the numbers	1 mark

SECTION - C

- 10. For drawing number line1 markFor correct representation2 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 $\frac{1}{2}$ mark 1 = 288, x+8 = 296, x+16 = 304 $1 \frac{1}{2}$ marks

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



13. For simplification & correct answer each 1 mark

Answer is ½

14. LR = LN = 70° (Opposite angles of a parallelogram) 1 mark LR and LI are (supplementary angles) 1 mark LI = $180^{\circ} - 70^{\circ} = 110^{\circ}$ 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 2 x years 1 mark ATP. 2x - 5 = 3(x-5)1 mark For finding x and correct answer 1½ marks 17. 40° + z = 70° (corresponding angles of parallel lines HE & OP) 1 ½ mark $Z = 30^{\circ}$ $Y = 40^{\circ}$ (Alternate interior oppoisite angles of parallel lines HO & EP) 1 mark Linear pair $180^{\circ} - 70^{\circ} = 110^{\circ}$ ½ mark Therefore x = 1100 (Opp. Angles of parallelogram are equal) 1 mark (OR)

Ans: Square and Rhombus including figures 2 marks
Square and Rectangle including figures 2 marks



18.