KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD
SAMPLE PAPER 01 : PERIODIC TEST – 1 (2019 – 20)
CLASS – VIII
MATHEMATICS

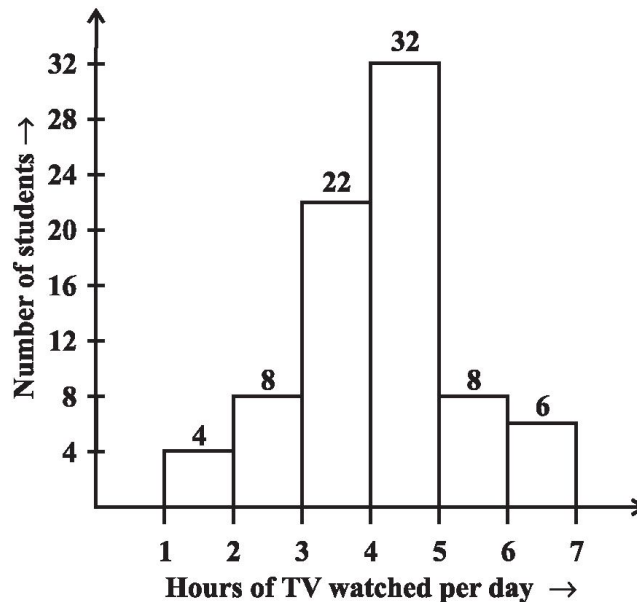T.T. 1:30   M.M. 40

General Instructions:
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 10 Objective type questions each carry 1 mark, Section B contains 3 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 3 questions each carry 4 marks.

SECTION – A(1 marks each)

The number of hours for which students of particular class watched television during holidays is shown through the graph given below. See and answer the questions from Q1 – Q2.

1. For how many hours did the maximum number of students watch TV ?
   (a) 4-5 hrs   (b) 6-7 hrs   (c) 3-4 hrs   (d) 2-3hrs

2. How many students watched TV for less than 4 hrs ?
   (a) 12   (b) 34   (c) 4   (d) 8

3. The number of sides in a regular polygon is 15, then measure of each exterior angle is
   (a) 24° (b) 36° (c) 20° (d) 18°

4. Each exterior angle of a regular hexagon is of measure
   (a) 120° (b) 80° (c) 100° (d) 60°

5. The angle sum of all interior angles of a convex polygon of sides 7 is
   (a) 180° (b) 540° (c) 630° (d) 900°

6. Solve: $5x – 7 = 2x + 8$
   (a) 5   (b) –9   (c) 5   (d) 9

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7. Solve: $y + 3 = 10$
(a) 7   (b) –7   (c) 13   (d) –13

8. Solve: $\dfrac{15}{4} - 7x = 9$
(a) $\dfrac{3}{4}$ (b) $-\dfrac{3}{4}$ (c) 1   (d) none of these

9. Which of the rational numbers $\dfrac{-5}{16}, \dfrac{-13}{24}, \dfrac{3}{-4}, \dfrac{7}{-12}$ is the smallest?
(a) $\dfrac{-5}{16}$ (b) $\dfrac{-13}{24}$ (c) $\dfrac{3}{-4}$ (d) $\dfrac{7}{-12}$

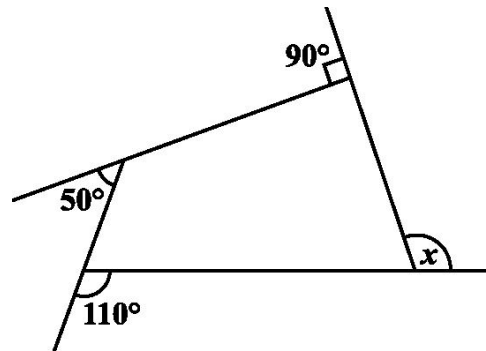**10.** A rational number between $\dfrac{3}{5}$ and $\dfrac{4}{5}$ is:
(a) $\dfrac{7}{5}$ (b) $\dfrac{7}{10}$ (c) $\dfrac{3}{10}$ (d) $\dfrac{4}{10}$

SECTION – B(2 marks each)

11. Find two rational numbers between $\dfrac{1}{4} \ and \ \dfrac{1}{2}$

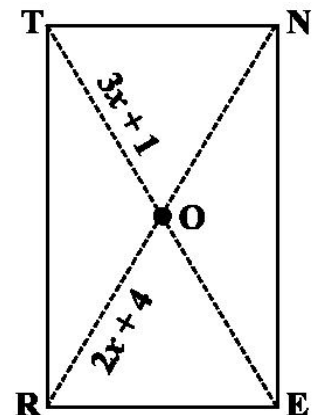**12.** Solve: $5x + \dfrac{7}{2} = \dfrac{3}{2}x - 14$

13. Find the angle measure x in the given figure:

SECTION – C(3 marks each)

14. Represent these numbers on the number line. $(i)\dfrac{7}{4} (ii)\dfrac{-5}{6} (iii)\dfrac{4}{7}$

15. Manoj donates his one part of the rectangle land RENT to the School for village children shown in fig. Its diagonals meet at O. Find x, if OR = 2x + 4 and OT = 3x + 1.

16. Draw a square of side 4.5 cm.

17. The shoppers who come to a departmental store are marked as: man (M), woman (W), boy (B) or girl (G). The following list gives the shoppers who came during the first hour in the morning:

W W W G B W W M G G M M W W W W G B M W B G G M W W W M M W W

W M B W G M W W W W G W M M W W M W G W M G W M M B G G W

Make a frequency distribution table using tally marks. Draw a bar graph to illustrate it.

SECTION – D(4 marks each)

18. There is a narrow rectangular plot, reserved for a school, in Mahuli village. The length and breadth of the plot are in the ratio 11:4. At the rate Rs100 per metre it will cost the village panchayat Rs 75000 to fence the plot. What are the dimensions of the plot?

19. Construct Quadrilateral JUMP where JU = 3.5 cm, UM = 4 cm, MP = 5 cm, PJ = 4.5 cm and PU = 6.5 cm

20. The number of students in a hostel, speaking different languages is given below. Display the data in a pie chart.

Language	Hindi	English	Marathi	Tamil	Bengali	Total
No. of Students	40	12	9	7	4	72