

**KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD**  
**SAMPLE PAPER 03 : PERIODIC TEST – 1 (2017 – 18)**  
**CLASS – VIII**  
**MATHEMATICS**

**T.T. 1:30**

**M.M. 40**

**General Instructions:**

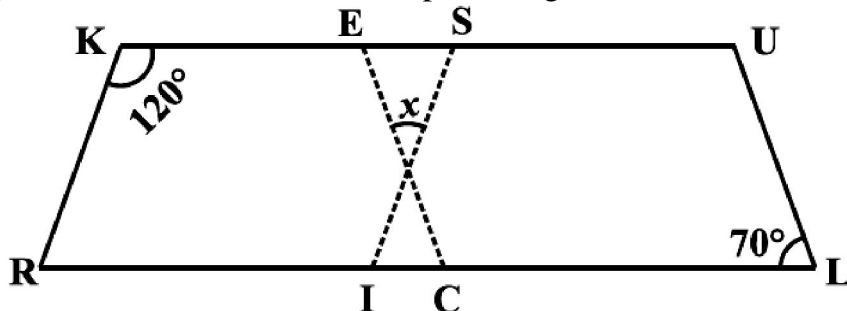
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

**SECTION – A(1 marks each)**

1. Find the multiplicative inverse of  $-\frac{2}{3} \times \frac{5}{8}$
2. Solve :  $2x - 3 = x + 2$
3. Solve:  $x = \frac{4}{5}(x + 10)$
4. Two adjacent angles of a parallelogram have equal measure. Find the measure of each of the angles of the parallelogram.

**SECTION – B(2 marks each)**

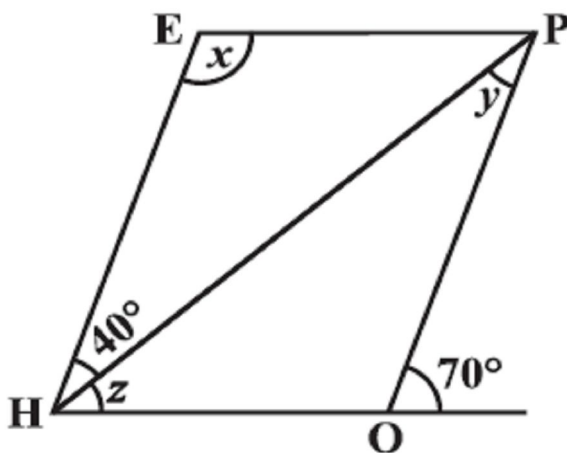
5. Find two rational numbers between  $-\frac{2}{5}$  and  $\frac{1}{2}$
6. The perimeter of a rectangular swimming pool is 154 m. Its length is 2 m more than twice its breadth. What are the length and the breadth of the pool?
7. Solve:  $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$
8. In the below figure both RISK and CLUE are parallelograms. Find the value of  $x$ .



**SECTION – C(3 marks each)**

9. Represent these numbers on the number line. (i)  $\frac{5}{4}$  (ii)  $-\frac{7}{6}$  (iii)  $\frac{4}{7}$
10. Construct Rhombus BEST where BE = 4.5 cm and ET = 6 cm

11. Numbers 1 to 10 are written on ten separate slips (one number on one slip), kept in a box and mixed well. One slip is chosen from the box without looking into it. What is the probability of (i) getting a number 6? (ii) getting a number less than 6? (iii) getting a number greater than 6?
12. Sanjay donates his one part of the land HOPE in the form of parallelogram to the village children for Hospital. Find  $x$ ,  $y$  and  $z$ . Which value is depicted from this?



**SECTION – D(4 marks each)**

13. Rahul donated money which is a two digit number such that the sum of the digits of a two-digit number is 9. When we interchange the digits, it is found that the resulting new number is greater than the original number by 27. What is the two-digit number? What values is depicted from this?
14. Construct Quadrilateral PLAN where  $PL = 4$  cm,  $LA = 6.5$  cm,  $\angle P = 90^\circ$ ,  $\angle A = 110^\circ$  and  $\angle N = 85^\circ$

15. Draw a pie chart of the data given below. The time spent by a child during a day.

Sleep	—	8 hours
School	—	6 hours
Home work	—	4 hours
Play	—	4 hours
Others	—	2 hours

16. The following figures GUNS and RUNS are parallelograms. Find  $x$  and  $y$ . (Lengths are in cm)

