

**KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD**  
**MODEL PAPER 01 FOR FA – 1 (2016 – 17)**  
**CLASS – VIII**  
**MATHEMATICS**

**T.T. 1:30**

**M.M. 40**

**General Instructions:**

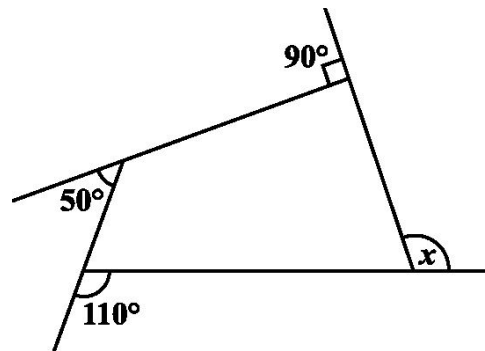
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

**SECTION – A(1 marks each)**

1. Find the multiplicative inverse of  $\frac{-5}{8} \times \frac{-3}{7}$
2. Solve :  $\frac{3}{7} + x = \frac{17}{7}$
3. Solve:  $7x - 9 = 16$
4. Find the number of sides of a regular polygon whose each exterior angle has a measure of  $45^\circ$ .

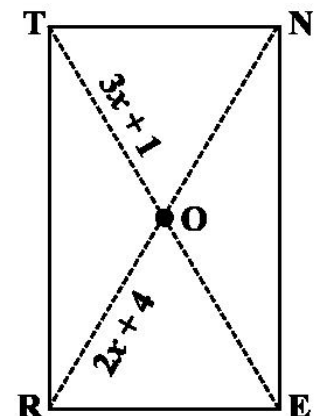
**SECTION – B(2 marks each)**

5. Find two rational numbers between  $\frac{1}{4}$  and  $\frac{1}{2}$
6. Find the value of  $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$ .
7. Solve:  $5x + \frac{7}{2} = \frac{3}{2}x - 14$
8. Find the angle measure x in the given figure:



**SECTION – C(3 marks each)**

9. Represent these numbers on the number line. (i)  $\frac{7}{4}$  (ii)  $\frac{-5}{6}$  (iii)  $\frac{4}{7}$
10. Solve:  $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$
11. Find the measure of each exterior angle of a regular polygon of  
 (i) 9 sides (ii) 15 sides
12. Manoj donates his one part of the rectangle land RENT to the School for village children. Its diagonals meet at O. Find x, if  $OR = 2x + 4$  and  $OT = 3x + 1$ . Which value is depicted from this?

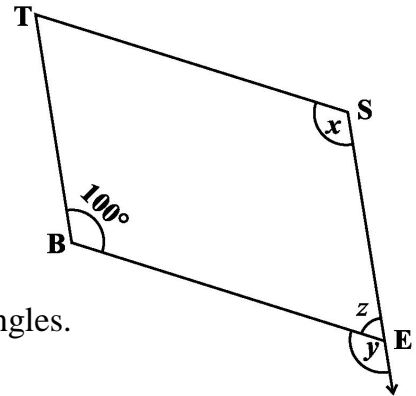


**SECTION – D(4 marks each)**

13. Find using distributive property: (i)  $\left\{ \frac{7}{5} \times \left( \frac{-3}{12} \right) \right\} + \left\{ \frac{7}{5} \times \frac{5}{12} \right\}$  (ii)  $\left\{ \frac{9}{16} \times \frac{4}{12} \right\} + \left\{ \frac{9}{16} \times \frac{-3}{9} \right\}$

14. The organisers of an essay competition decide that a winner in the competition gets a prize of Rs 100 and a participant who does not win gets a prize of Rs 25. The total prize money distributed is Rs 3,000. Find the number of winners, if the total number of participants is 63. What are the advantages of participating in competitions in school?

15. (a) In Fig, BEST is a parallelogram. Find the values  $x$ ,  $y$  and  $z$ .



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

16. 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? Which value is depicted from this?

