

KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD
MODEL PAPER 03 FOR FA – 1 (2016 – 17)
CLASS – VIII
MATHEMATICS

T.T. 1:30

M.M. 40

General Instructions:

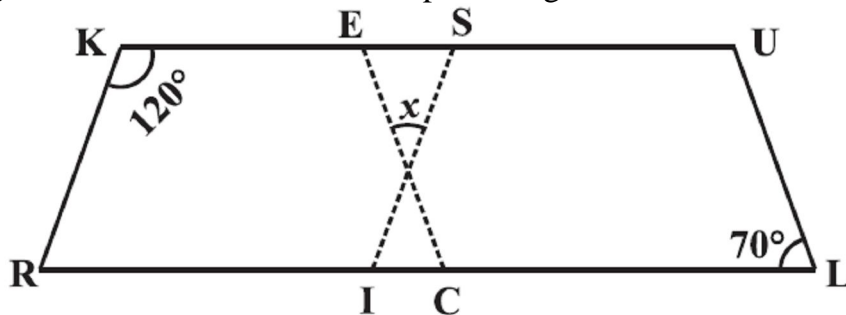
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

SECTION – A(1 marks each)

1. Find the multiplicative inverse of $\frac{-2}{3} \times \frac{5}{8}$
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. Find the value of $-\frac{2}{3} \times \frac{3}{5} + \frac{5}{2} - \frac{3}{5} \times \frac{1}{6}$.
7. Solve: $\frac{x+1}{2x+3} = \frac{3}{8}$
8. In the below figure both RISK and CLUE are parallelograms. Find the value of x .



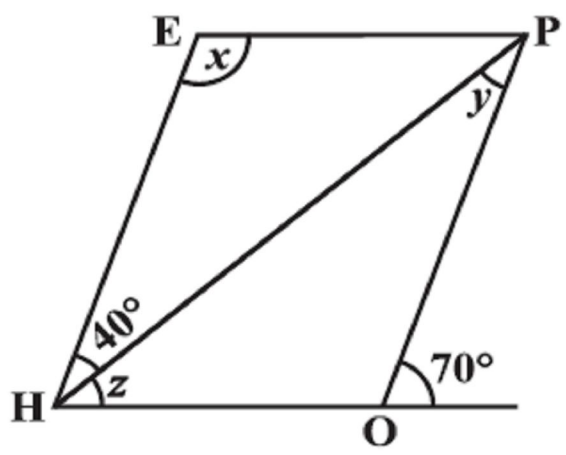
SECTION – C(3 marks each)

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

10. Solve: $m - \frac{m-1}{2} = 1 - \frac{m-2}{3}$

11. (i) How many sides does a regular polygon have if the measure of an exterior angle is 24° ?
 (ii) How many sides does a regular polygon have if each of its interior angles is 165° ?

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?

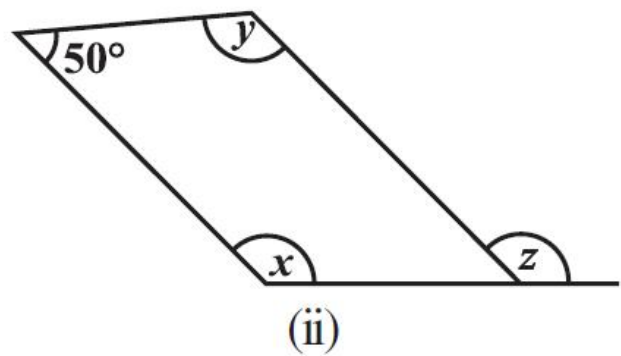
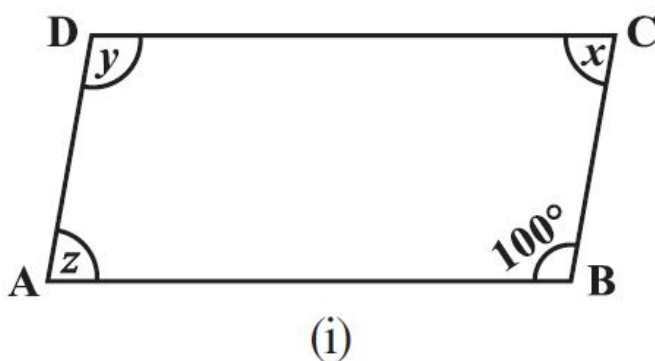


SECTION – D(4 marks each)

13. 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) $\left(-\frac{3}{4} \times \frac{2}{3} \right) + \left(-\frac{3}{4} \times \frac{-5}{6} \right)$

14. 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?

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



16. Laxmi saved currency notes of denominations Rs 100, Rs 50 and Rs 10, respectively. The ratio of the number of these notes is 2:3:5. The total cash with Lakshmi is Rs 4,00,000. How many notes of each denomination does she have? What are the benefits of savings?