

KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD
MODEL PAPER 02 FOR FA – 1 (2016 – 17)
CLASS – VIII
MATHEMATICS

T.T. 1:30

M.M. 40

General Instructions:

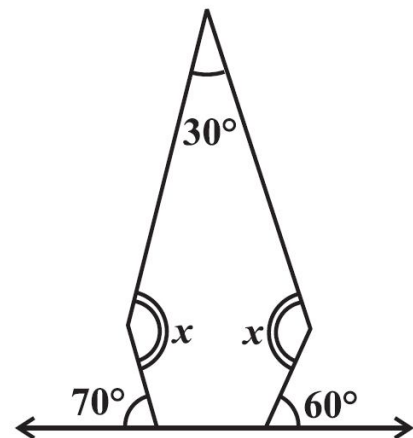
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

SECTION – A(1 marks each)

1. Find the multiplicative inverse of $-1 \times \frac{-2}{5}$
2. Solve: $\frac{x}{3} + 1 = \frac{7}{15}$
3. Solve: $17 + 6p = 9$.
4. The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram.

SECTION – B(2 marks each)

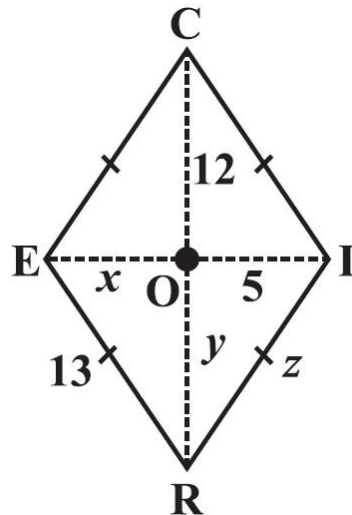
5. Find two rational numbers between $\frac{3}{5}$ and $\frac{3}{4}$
6. Find the value of $\frac{2}{5} \times \left(-\frac{3}{7}\right) - \frac{1}{6} \times \frac{3}{2} + \frac{1}{14} \times \frac{2}{5}$.
7. Solve: $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$
8. Find the angle measure x in the given figure:



SECTION – C(3 marks each)

9. Represent these numbers on the number line. (i) $\frac{9}{4}$ (ii) $-\frac{5}{6}$ (iii) $\frac{3}{7}$
10. Solve: $\frac{6x+1}{3} + 1 = \frac{x-3}{6}$
11. Find the measure of each exterior angle of a regular polygon of
(i) 6 sides (ii) 10 sides

12. Ajay donates his one part of the land REST in the form of rhombus to the village children for Hospital. Find x, y and z. Which value is depicted from this?

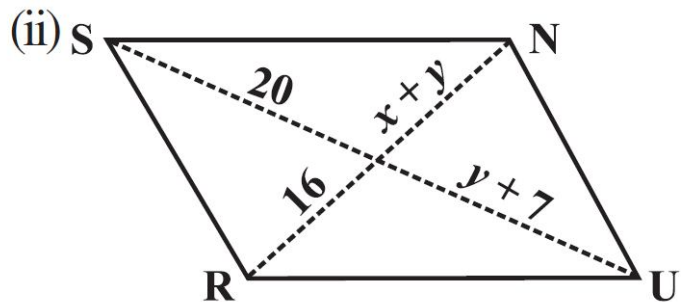
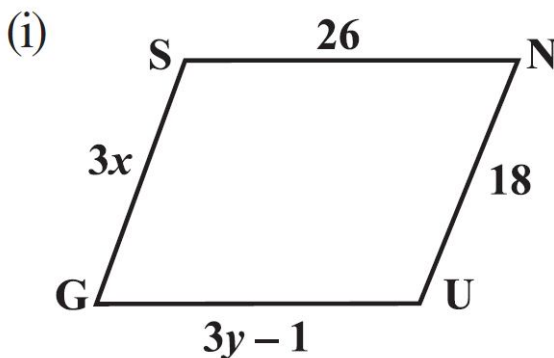


SECTION – D(4 marks each)

13. Find using distributive property: (i) $\left(-\frac{3}{4} \times \frac{2}{3}\right) + \left(-\frac{3}{4} \times \frac{-5}{6}\right)$ (ii) $\left\{\frac{9}{16} \times \frac{4}{12}\right\} + \left\{\frac{9}{16} \times \frac{-3}{9}\right\}$

14. Hasan buys two kinds of cloth materials for school uniforms, shirt material that costs him Rs 50 per metre and trouser material that costs him Rs 90 per metre. For every 2 meters of the trouser material he buys 3 metres of the shirt material. He sells the materials at 12% and 10% profit respectively. His total sale is Rs 36,660. How much trouser material did he buy? Why uniform is necessary for the school?

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



16. I have saved a total of Rs 300 in coins of denomination Re 1, Rs 2 and Rs 5 in my piggy bank. The number of Rs 2 coins is 3 times the number of Rs 5 coins. The total number of coins is 160. How many coins of each denomination are with me? What are the benefits of savings?