

**KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD**  
**SAMPLE PAPER 02 : PERIODIC TEST – 1 (2017 – 18)**  
**CLASS – VIII**  
**MATHEMATICS**

**T.T. 1:30**

**M.M. 40**

**General Instructions:**

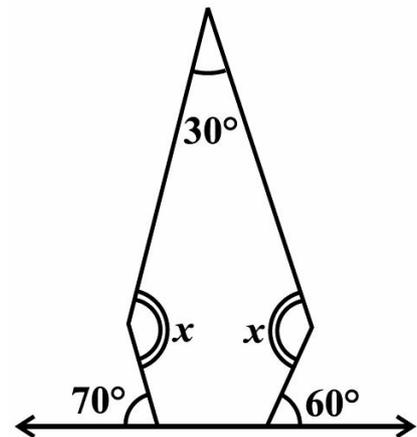
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

**SECTION – A(1 marks each)**

1. Find the multiplicative inverse of  $-1 \times \frac{-2}{5}$
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. The difference between two whole numbers is 66. The ratio of the two numbers is 2 : 5. What are the two numbers?
6. Find two rational numbers between  $\frac{3}{5}$  and  $\frac{3}{4}$
7. Solve:  $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$
8. Find the angle measure x in the given figure:

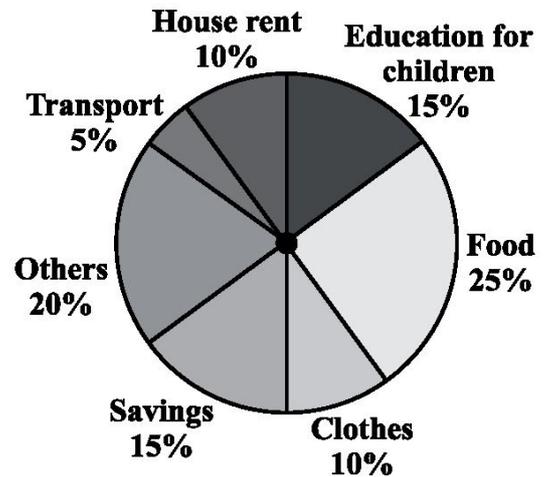


**SECTION – C(3 marks each)**

9. 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)  $\left\{ \frac{9}{16} \times \frac{4}{12} \right\} + \left\{ \frac{9}{16} \times \frac{-3}{9} \right\}$
10. Find the measure of each exterior angle of a regular polygon of  
(i) 6 sides (ii) 10 sides

11. Construct a square READ with RE = 5.1 cm.

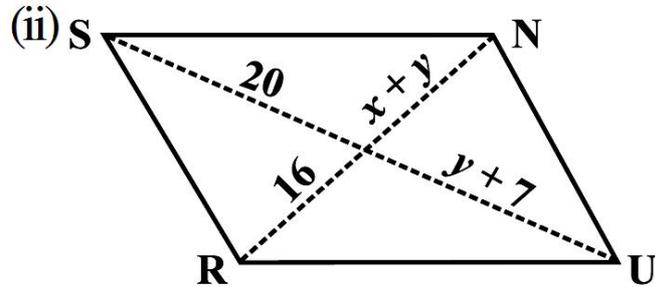
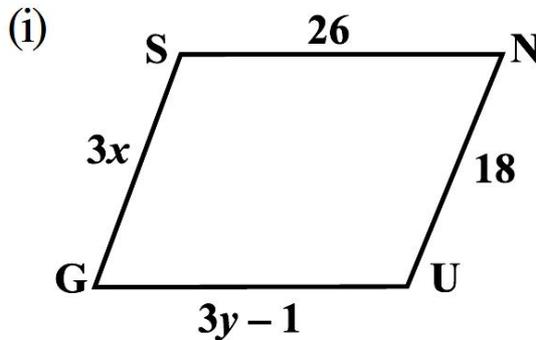
12. The given pie chart gives the expenditure (in percentage) on various items and savings of a family during a month.



- (i) On which item, the expenditure was maximum?
- (ii) Expenditure on which item is equal to the total savings of the family?
- (iii) If the monthly savings of the family is Rs 3000, what is the monthly expenditure on clothes?

**SECTION – D(4 marks each)**

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



14. 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?

15. Construct a quadrilateral MIST where MI = 3.5 cm, IS = 6.5 cm,  $\angle M = 75^\circ$ ,  $\angle I = 105^\circ$  and  $\angle S = 120^\circ$ .

16. The weekly wages (in Rs) of 30 workers in a factory are.

- 830, 835, 890, 810, 835, 836, 869, 845, 898, 890, 820, 860, 832, 833, 855, 845, 804, 808, 812, 840, 885, 835, 835, 836, 878, 840, 868, 890, 806, 840

Using tally marks make a frequency table with intervals as 800–810, 810–820 and so on. Draw a histogram for the frequency table and answer the following questions.

- (i) Which group has the maximum number of workers?
- (ii) How many workers earn Rs 850 and more?
- (iii) How many workers earn less than Rs 850?

