

**KENDRIYA VIDYALAYA SITAPUR ,FIRST SHIFT**  
**PERIODIC TEST – 1 (2018 – 19)**  
**CLASS – VIII**  
**MATHEMATICS**

**T.T. 1:30**

**M.M. 40**

**General Instructions:**

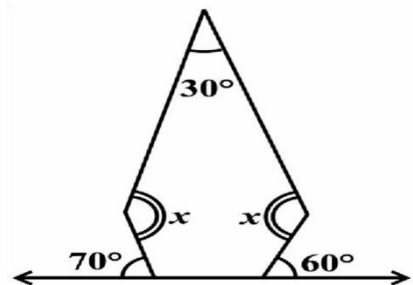
1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 4 questions each carry 1 mark, Section B contains 4 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 4 questions each carry 4 marks.

**SECTION – A (1 marks each)**

1. Find the multiplicative inverse of  $\frac{-5}{7}$ .
2. Solve :  $\frac{15}{4} - 7x = 9$
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 sum of three consecutive multiples of 11 is 363. Find these multiples.
6. Find two rational numbers between  $\frac{2}{3}$  and  $\frac{4}{5}$ .
7. Solve:  $5x + \frac{7}{2} = \frac{3}{2}x - 14$
8. Find the angle measure  $x$  in the given figure:

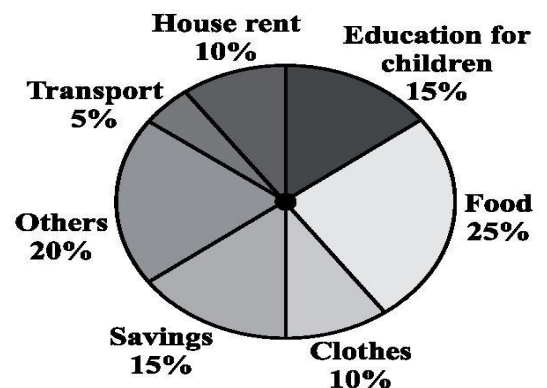


**SECTION – C (3 marks each)**

9. Evaluate , using appropriate property:  $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$
10. Find the measure of each exterior and interior angle of a regular polygon of 6 sides .

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

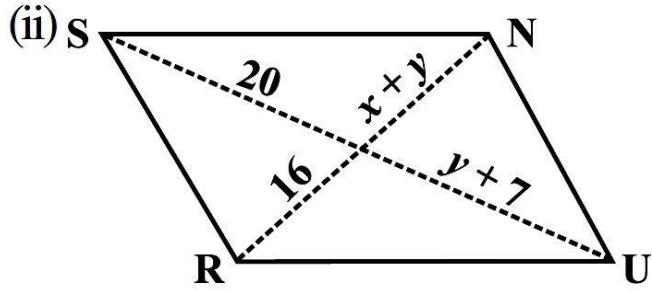
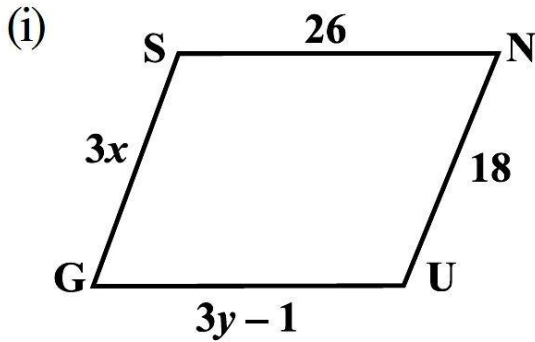
12. The given pie chart gives the expenditure (in percentage) on various items and savings of a family during a month.



- (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.** Construct Quadrilateral JUMP where  $JU = 3.5$  cm,  $UM = 4$  cm,  $MP = 5$  cm,  $PJ = 4.5$  cm and  $PU = 6.5$  cm.

**15.** 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?

**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?

OR

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 prime number? (ii) getting a composite number (iii) getting a number less than 6? (iv) getting a number greater than 6?