

KENDRIYA VIDYALAYA GACHIBOWLI, HYDERABAD
SAMPLE PAPER 02 : PERIODIC TEST – 1 (2019 – 20)
CLASS – VIII
MATHEMATICS

T.T. 1:30

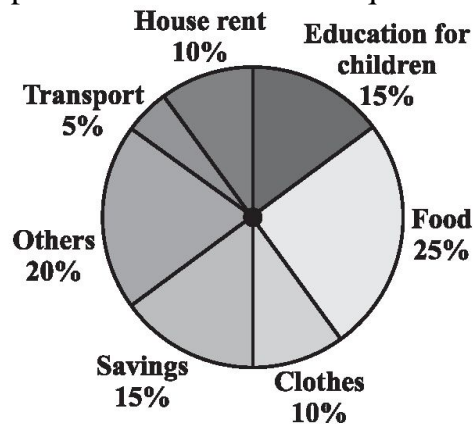
M.M. 40

General Instructions:

1. All questions are compulsory.
2. Question paper is divided into four sections: Section A contains 10 Objective type questions each carry 1 mark, Section B contains 3 questions each carry 2 marks, Section C contains 4 questions each carry 3 marks and Section D contains 3 questions each carry 4 marks.

SECTION – A(1 marks each)

Adjoining pie-chart gives the expenditure (in %age) on various items and savings of a family during a month. Study the given pie-chart and answer the questions from Q1 – Q2.



1. On which item the expenditure was maximum ?
(a) food (b) education (c) others (d) transport
2. On which item the expenditure was minimum ?
(a) food (b) education (c) others (d) transport
3. Which of the rational numbers $\frac{-11}{28}$, $\frac{-5}{7}$, $\frac{9}{-14}$, $\frac{29}{-42}$ is the greatest?
(a) $\frac{-11}{28}$ (b) $\frac{-5}{7}$ (c) $\frac{9}{-14}$ (d) $\frac{29}{-42}$
4. The multiplicative inverse of $\frac{3}{40}$ is:
(a) 1 (b) 0 (c) any number (d) none of these
5. Solve: $7x - 9 = 12$
(a) 2 (b) -2 (c) 3 (d) none of these
6. Two numbers are in the ratio 5:3. If they differ by 18, what are the numbers?
(a) 45, 27 (b) 50, 32 (c) 40, 22 (d) none of these

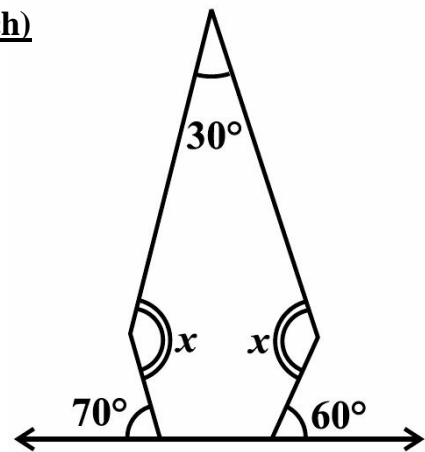
7. Solve: $5t - 3 = 3t - 5$
 (a) 1 (b) -1 (c) 2 (d) none of these
8. How many diagonals do have in a regular hexagon?
 (a) 2 (b) 1 (c) 3 (d) none of these
9. A polygon with minimum number of sides is
 (a) pentagon (b) square (c) triangle (d) angle
10. If the three angles of a quadrilateral are 120° , 130° , 10° then what is the fourth angle?
 (a) 30° (b) 100° (c) 40° (d) 90°

SECTION – B(2 marks each)

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

12. Find the angle measure x in the given figure:

13. Find two rational numbers between $\frac{3}{5}$ and $\frac{3}{4}$



SECTION – C(3 marks each)

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

15. Find the measure of each exterior angle of a regular polygon of
 (i) 6 sides (ii) 10 sides

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

17. 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 number 6? (ii) getting a number less than 6? (iii) getting a number greater than 6?

SECTION – D(4 marks each)

18. Construct Quadrilateral PLAN where PL = 4 cm, LA = 6.5 cm, $\angle P = 90^\circ$, $\angle A = 110^\circ$ and $\angle N = 85^\circ$

19. 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?

20. 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?

