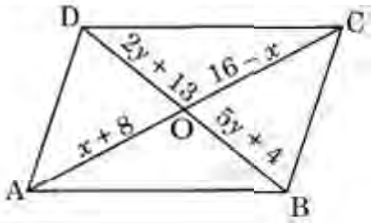
KENDRIYA VIDYALAYA SITAPUR (FIRST SHIFT)
PERIODIC TEST-1 (2023-24)

SUBJECT: MATHEMATICS **MAX. MARKS: 40**
CLASS: VIII **DURATION: 1½HRS**

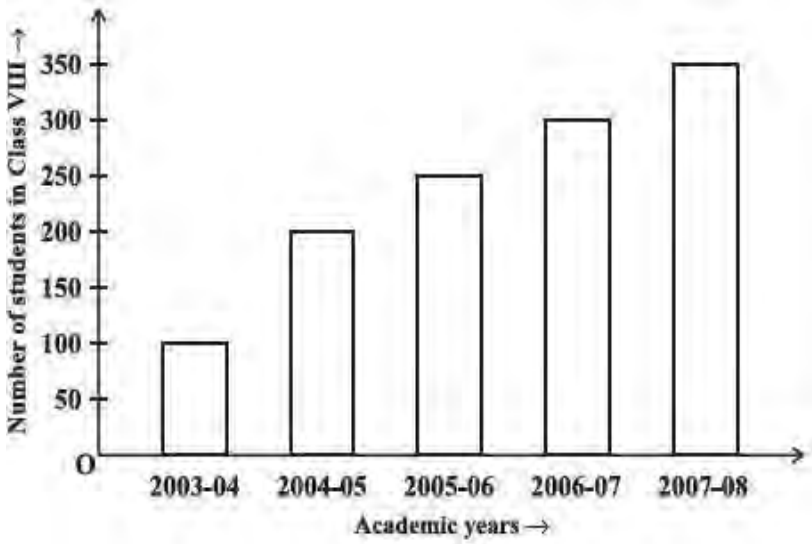
General Instructions:

- **All** questions are compulsory.
- **Section A** comprises of **10 MCQs** of **1 mark** each.
- **Section B** comprises of 5 questions of **2 marks** each and 2 questions of 3 **marks** each.
- **Section C** comprises of 2 questions of **5 marks** each.
- **Section D** comprises of 3 case based questions of **4 marks** each.

Q.No.	SECTION-A	MARKS
	Choose the correct option in each of the following questions (Q1 to Q10):-	
1	The reciprocal of -1 is.... a)-1 b)0 c)1 d)2	1
2	The additive inverse of $-\frac{5}{7}$ is a) 1 b) $-\frac{5}{7}$ c) 0 d) $\frac{5}{7}$	1
3	The product of two rational numbers is always a___. a) Whole number b) natural number c) integer d) rational number	1
4	What is the value of x in the following equation: $\frac{2x}{3} = 18$ a)27 b)12 c)9 d) none of these	1
5	If 6=z+ 2 then value of z will be _____ a)16 b)-4 c)4 d)3	1
6	The opposite angles of a parallelogram are_____ a) Supplementary b)Equal c) Complementary d) None of these	1
7	The sum of all interior angles of a quadrilateral is_____ a)180 b)90 c)360 d)540	1
8	A polygon with minimum number of sides is a) Pentagon b) Square c) Triangle d) Angle	1
9	How many diagonals do a convex quadrilateral has? a)one b)two c)three d)four	1
10	If the diagonals of a quadrilateral bisect each other at right angles, it will be a a) rhombus b) trapezium c) rectangle d)kite	1
	SECTION-B	
11	Name the property under multiplication used in each of the following (i) $\frac{-4}{5} \times 1 = 1 \times \frac{-4}{5} = \frac{-4}{5}$ (ii) $\frac{-19}{29} \times \frac{29}{-19} = 1$	2
12	Find the measure of each exterior angle of a regular polygon with 15 sides	2
13	Find: $\frac{3}{7} \times \left(\frac{-4}{5}\right) \times \left(\frac{-14}{\quad}\right) \times \left(\frac{15}{16}\right)$	2

14	If $\frac{5x}{3} - 4 = \frac{2x}{5}$ then find the value of 2x – 7.	2
15	Find the probability of getting a prime number when a die is rolled once	2
16	Find: $\frac{3}{7} +$ + + $\left(\frac{5}{22}\right)$	3
17	Find the values of x and y in the following parallelogram 	3
	SECTION-C	
18	Draw a pie chart showing the following information. The table shows the colors preferred by a group of people	5

Colors	Blue	Green	Red	Yellow	Total
Number of people	18	9	6	3	36

19	Solve the following linear equation and check the result: $x+7 \quad -\frac{8x}{3} = \frac{17}{6} - \frac{5x}{2}$	5
	SECTION-D	
	CASE BASED	
20	Data is represented **graphically** to give a clear idea of what it represents. **A bar graph represents the** information using bars of uniform width, their heights being proportional to the respective values. Study the graph and answer thefollowing:  (i) What is the information given by the bar graph? (ii) In which year is the increase in the number of students maximum? (iii) In which year is the number of students maximum? (iv) State whether true or false: 'The number of students during 2005-06 is twice that of 2003-04.'	1x4=4