

CLASS: VIII

DURATION: 1½HRS

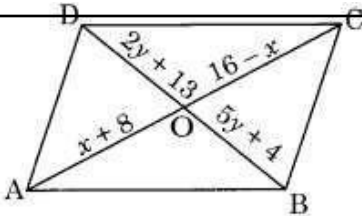
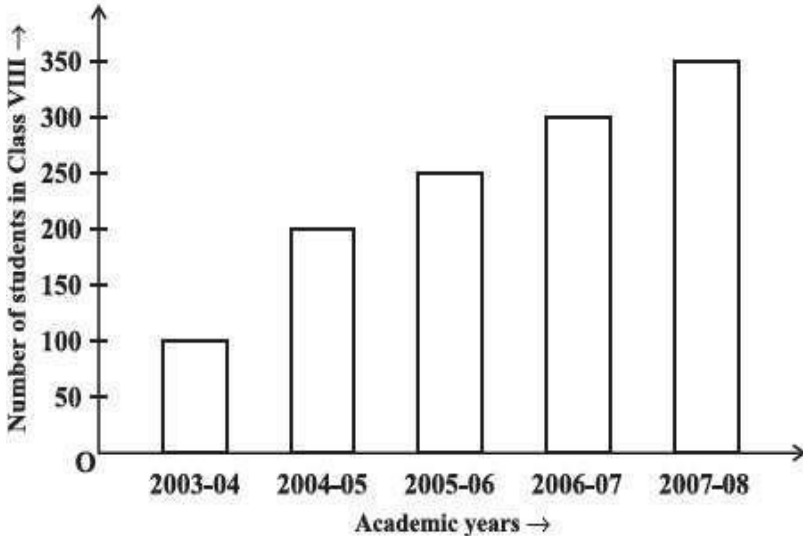
General Instructions:

Section B comprises of 5 questions of **2 marks** each and 2 questions of 3 **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? $\frac{2x}{3} = 1$ a) 27 b) 12 c) 9 d) none of these	1
5	If $6 = z + 2$ then value of z will be ____ a) 6 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) 80 b) 90 c) 3 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) four b) two c) three	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		2

	Find: $\frac{3}{7} \times \left(\frac{-4}{5}\right) \times \left(\frac{-14}{-16}\right) \times \left(\frac{15}{16}\right)$	
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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: $3 + (22)$	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												
<table><tr><td>Colors</td><td>Blue</td><td>Green</td><td>Red</td><td>Yellow</td><td>Total</td></tr><tr><td>Number of people</td><td>1</td><td>9</td><td>6</td><td>3</td><td>3</td></tr></table>			Colors	Blue	Green	Red	Yellow	Total	Number of people	1	9	6	3	3
Colors	Blue	Green	Red	Yellow	Total									
Number of people	1	9	6	3	3									
19	Solve the following linear equation and check the result:	5												
$x + 7 = \frac{3}{8x} - \frac{6}{17} - \frac{2}{5x}$														
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. Study the graph with their heights below:	1x4=4												
 (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.'														