

KENDRIYA VIDYALAYA GACHIBOWLI , HYDERABAD - 32
SAMPLE PAPER 02 FOR SA - I (2016-17)

SUBJECT: MATHEMATICS

BLUE PRINT : SA-I CLASS VI

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Knowing our Numbers	1(1)	--	1(3)	1(4)	3(8)
Whole Numbers	1(1)	1(2)	1(3)	--	3(6)
Playing with numbers	1(1)	1(2)	1(3)	1(4)	4(10)
Integers	1(1)	1(2)	2(6)	--	4(9)
Basic Geometric Ideas	1(1)	--	1(3)	1(4)	3(8)
Understanding Elementary ideas	1(1)	1(2)	1(3)	1(4)	4(10)
Algebra	2(2)	2(4)	1(3)	--	5(9)
Total	8(8)	6(12)	8(24)	4(16)	26(60)

MARKING SCHEME FOR SA – I

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	8	08
SA – I	2	6	12
SA – II	3	8	24
LA	4	4	16
GRAND TOTAL			60

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CLASS : VI

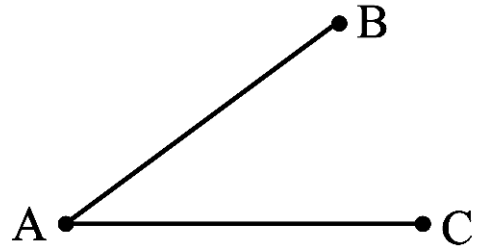
MAX. MARKS : 60
DURATION : 2½ HRS

General Instructions:

1. All questions are compulsory.
2. Question paper is divided into four sections: Section A consists 8 questions each carry 1 marks, Sections B consists 6 questions each carry 2 marks, Sections C consists 8 questions each carry 3 marks and Sections D consists 4 questions each carry 4 marks

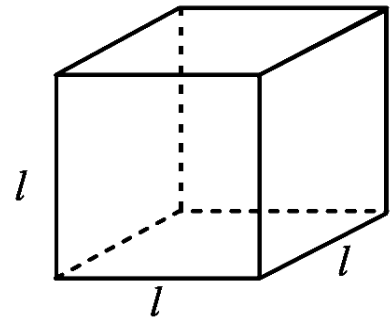
SECTION – A

1. Write the names of number 99900046 according to Indian System of Numeration.
2. Write the successor of 1099999.
3. Find the HCF of 24 and 36
4. Name the line segments in the figure
5. What is the measure of (i) a two right angle? (ii) a complete angle?
6. Which number will we reach if we move 5 numbers to the left of 1.
7. If there are 50 mangoes in a box, how will you write the total number of mangoes in terms of the number of boxes? (Use b for the number of boxes.)
8. Give expression for y is multiplied by -8 and then 5 is added to the result



SECTION – B

9. Find the value of the following:
(a) $81265 \times 169 - 81265 \times 69$ (b) $3845 \times 5 \times 782 + 769 \times 25 \times 218$
10. Express each of the following numbers as the sum of three odd primes: (a) 21 (b) 53
11. Find the number of right angles turned through by the hour hand of a clock when it goes from
(a) 3 to 6 (b) 2 to 8 (c) 5 to 11 (d) 10 to 1
12. Give expressions in the following cases: (a) 12 subtracted from z
(b) n multiplied by 2 and 1 subtracted from the product
13. A cube is a three-dimensional figure as shown in adjoining Figure. It has six faces and all of them are identical squares. The length of an edge of the cube is given by l . Find the formula for the total length of the edges of a cube.
14. Represent the following numbers on a number line : (a) $+4$ (b) -8



SECTION – C

15. Write in Roman Numerals (a) 73 (b) 92 (c) 66.
16. Find the product by suitable rearrangement: (a) $25 \times 8358 \times 4$ (b) $625 \times 3759 \times 8$
17. Draw a rough sketch of a quadrilateral PQRS. Draw its diagonals. Name them. Is the meeting point of the diagonals in the interior or exterior of the quadrilateral?
18. Find (a) $(-13) + 32 - 8 - 1$ (b) $(-7) + (-8) + (-90)$ (c) $50 - (-40) - (-2)$
19. Using divisibility tests, determine which of following two numbers are divisible by 6:
(a) 438750 (b) 1790184
20. Find the sum : (a) $-312, 39$ and 192 (b) $-50, -200$ and 300
21. Take Sarita's present age to be y years
(i) What was her age 3 years back?
(ii) Sarita's grandfather is 6 times her age. What is the age of her grandfather?
(iii) Grandmother is 2 years younger than grandfather. What is grandmother's age?
(iv) Sarita's father's age is 5 years more than 3 times Sarita's age. What is her father's age?
22. Name the types of following triangles :
(a) $\triangle DEF$ with $m \angle D = 90^\circ$
(b) $\triangle XYZ$ with $m \angle Y = 90^\circ$ and $XY = YZ$.
(c) $\triangle LMN$ with $m \angle L = 30^\circ$, $m \angle M = 70^\circ$ and $m \angle N = 80^\circ$.

SECTION – D

23. Kirti bookstore sold books worth Rs 2,85,891 in the first week of June and books worth Rs 4,00,768 in the second week of the month. How much was the sale for the two weeks together? In which week was the sale greater and by how much?
24. The traffic lights at three different road crossings change after every 48 seconds, 72 seconds and 108 seconds respectively. If they change simultaneously at 7 a.m., at what time will they change simultaneously again? Why it is recommended to stop the vehicle engine at the red light signals?
25. In the Fig., (a) name any four angles that appear to be acute angles.
(b) name any two angles that appear to be obtuse angles.
26. Where will the hour hand of a clock stop if it starts
(a) from 6 and turns through 1 right angle?
(b) from 8 and turns through 2 right angles?
(c) from 10 and turns through 3 right angles?
(d) from 7 and turns through 2 straight angles?

