

**KENDRIYA VIDYALAYA GACHIBOWLI , HYDERABAD - 32**  
**SAMPLE PAPER 03 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)	<b>3(8)</b>
Whole Numbers	1(1)	1(2)	1(3)	--	<b>3(6)</b>
Playing with numbers	1(1)	1(2)	1(3)	1(4)	<b>4(10)</b>
Integers	1(1)	1(2)	2(6)	--	<b>4(9)</b>
Basic Geometric Ideas	1(1)	--	1(3)	1(4)	<b>3(8)</b>
Understanding Elementary ideas	1(1)	1(2)	1(3)	1(4)	<b>4(10)</b>
Algebra	2(2)	2(4)	1(3)	--	<b>5(9)</b>
<b>Total</b>	<b>8(8)</b>	<b>6(12)</b>	<b>8(24)</b>	<b>4(16)</b>	<b>26(60)</b>

**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
<b>GRAND TOTAL</b>			<b>60</b>

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**SUBJECT: MATHEMATICS**  
**CLASS : VI**

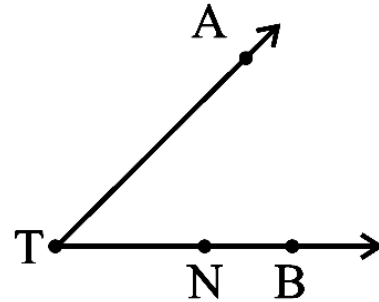
**MAX. MARKS : 60**  
**DURATION : 2½ HRS**

**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 98432701 according to Indian System of Numeration.
2. Write the successor of 100199.
3. Find the HCF of 15, 25 and 30.
4. Name the rays given in the figure:
5. What is the measure of  $\frac{3}{4}$  of a revolution?
6. Which number will we reach if we move 5 numbers to the left of 0.
7. A bird flies 1 kilometer in one minute. Can you express the distance covered by the bird in terms of its flying time in minutes? (Use  $t$  for flying time in minutes.)
8. Give expression for  $y$  is multiplied by 5 and the result is subtracted from 16



**SECTION – B**

9. Find the value of the following:  
(a)  $297 \times 17 + 297 \times 3$  (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. A bus travels at  $v$  km per hour. It is going from Daspur to Beespur. After the bus has travelled 5 hours, Beespur is still 20 km away. What is the distance from Daspur to Beespur? Express it using  $v$ .
13. A rectangular box has height  $h$  cm. Its length is 5 times the height and breadth is 10 cm less than the length. Express the length and the breadth of the box in terms of the height.
14. Represent the following numbers on a number line : (a)  $+ 3$  (b)  $- 9$

## SECTION – C

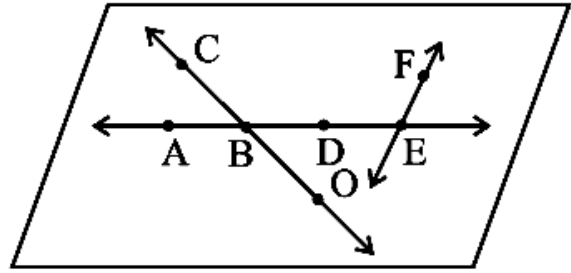
15. Write in Roman Numerals (a) 53 (b) 72 (c) 60.

16. Find the product by suitable rearrangement:

(a)  $125 \times 40 \times 8 \times 25$  (b)  $285 \times 5 \times 60$

17. Use the figure to name :

- (a) Line containing point E.  
 (b) Line passing through A.  
 (c) Line on which O lies  
 (d) Two pairs of intersecting lines.



18. Find the value of  $-8 - (-10)$  using number line

19. Using divisibility tests, determine which of following two numbers are divisible by 6:

(a) 438750 (b) 1790184

20. Find the value of the following:

(a)  $(30) + (-23) + (-63) + (+55)$

(b)  $(-9) + (+4) + (-6) + (+3)$

21. Complete the table and by inspection of the table find the solution to the equation  $m + 10 = 16$ .

m	3	4	5	6	7	8
$m + 10$						

22. Give reasons for the following :

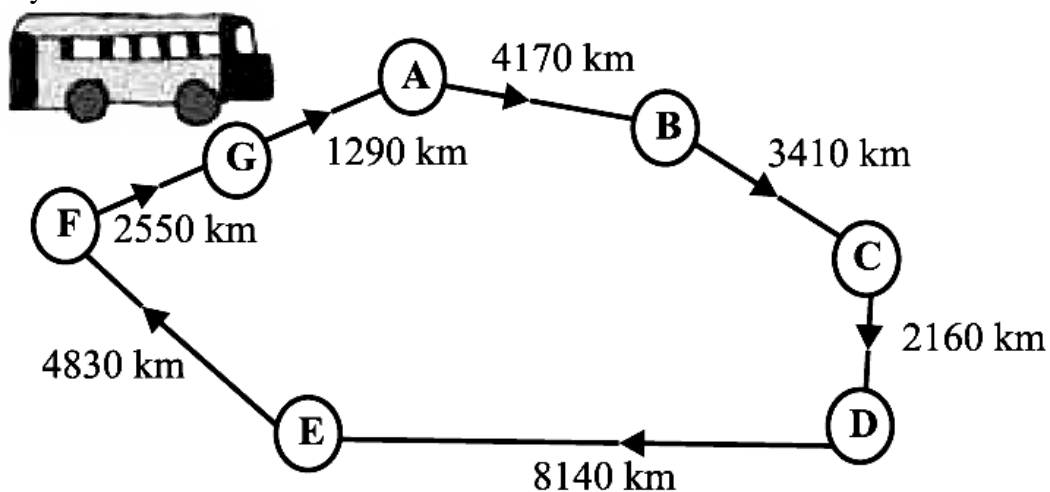
- (a) A square can be thought of as a special rectangle.  
 (b) A rectangle can be thought of as a special parallelogram.  
 (c) A square can be thought of as a special rhombus.

## SECTION – D

23. A bus started its journey and reached different places with a speed of 60 km/hour. The journey is shown below figure.

(i) Find the total distance covered by the bus, if it starts from A and returns back to A.

(ii) Can you find the difference of distances from C to D and D to E?



24. Three tankers contain 403 litres, 434 litres and 465 litres of diesel respectively. Find the maximum capacity of a container that can measure the diesel of the three containers exact number of times.
25. Where will the hand of a clock stop if it
- (a) starts at 12 and makes  $\frac{1}{2}$  of a revolution, clockwise?
  - (b) starts at 2 and makes  $\frac{1}{2}$  of a revolution, clockwise?
  - (c) starts at 5 and makes  $\frac{1}{4}$  of a revolution, clockwise?
  - (d) starts at 5 and makes  $\frac{3}{4}$  of a revolution, clockwise?
26. Draw a rough figure and label suitably in each of the following cases:
- (a) Point P lies on  $\overline{AB}$ .
  - (b)  $\overline{XY}$  and  $\overline{PQ}$  intersect at M.
  - (c) Line  $l$  contains E and F but not D.
  - (d)  $\overline{OP}$  and  $\overline{OQ}$  meet at O.
- .....