

**KENDRIYA VIDYALAYA GACHIBOWLI , GPRA CAMPUS, HYD-32**  
**SAMPLE PAPER 02 FOR SESSION ENDING EXAM (2018-19)**

SUBJECT: MATHEMATICS

**BLUE PRINT FOR SESSION ENDING EXAM: CLASS VI**

Unit/Topic	VSA (1 mark)	SA-I (2 marks)	SA-II (3 marks)	LA (4 marks)	Total
Playing with Numbers	1(1)	--	1(3)	--	2(4)
Fractions	1(1)	--	1(3)	--	2(4)
Decimals	1(1)	--	2(6)	1(4)	4(11)
Data Handlings	1(1)	1(2)	1(3)	1(4)	4(10)
Mensuration	1(1)	1(2)	1(3)	2(8)	5(14)
Algebra	1(1)	1(2)	1(3)	1(4)	4(10)
Ratio and Proportion	--	1(2)	1(3)	2(8)	4(13)
Symmetry	--	1(2)	1(3)	--	2(5)
Practical Geometry	--	1(2)	1(3)	1(4)	3(9)
<b>Total</b>	<b>6(6)</b>	<b>6(12)</b>	<b>10(30)</b>	<b>8(32)</b>	<b>30(80)</b>

**Note:**

- 1) 10% i.e. 8 marks of 1<sup>st</sup> term syllabus covering significant topics/chapters have taken as per CBSE guidelines.
- 2) Numerals inside the bracket indicate marks and outside the bracket indicate the number of questions

**MARKING SCHEME FOR SESSION ENDING EXAM**

SECTION	MARKS	NO. OF QUESTIONS	TOTAL
VSA	1	6	06
SA – I	2	6	12
SA – II	3	10	30
LA	4	8	32
<b>GRAND TOTAL</b>			<b>80</b>

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**MAX. MARKS : 80**  
**DURATION : 2½HRS**

**General Instructions:**


- (i). All questions are compulsory.
- (ii). This question paper contains **30** questions divided into four Sections A, B, C and D.
- (iii). **Section A** comprises of 6 questions of **1 mark** each. **Section B** comprises of 6 questions of **2 marks** each. **Section C** comprises of 10 questions of **3 marks** each and **Section D** comprises of 8 questions of **4 marks** each.
- (iv). Use of Calculators is not permitted

**SECTION – A**

1. The length of a young gram plant is 65 mm. Express its length in cm.
2. Meera went to a park 150 m long and 80 m wide. She took one complete round on its boundary. What is the distance covered by her?
3. Write the smallest digit in the blank space of number 4765\_\_2 so that the number formed is divisible by 3.
4. Reduce the fraction  $\frac{48}{60}$  to simplest form.
5. A bird flies 1 kilometer in one minute. Express the distance covered by the bird in terms of its flying time in minutes?
6. The following are the number of electric bulbs purchased for a lodging house during the first four months of a year. (Each bulb symbol represent 10 bulbs.) Find the numbers of bulbs purchased during April.

<b>January</b>	
<b>February</b>	
<b>March</b>	
<b>April</b>	

**SECTION – B**

7. With PQ of length 6 cm as diameter, draw a circle.
8. Write the letters of the word ‘MATHEMATICS’ which have no line of symmetry.
9. Find the rule, which gives the number of matchsticks required to make matchstick pattern of letter U as . Use a variable to write the rule.

10. Two sides of a triangle are 22 cm and 28 cm. The perimeter of the triangle is 70 cm. What is its third side?
11. There are 45 persons working in an office. If the number of females is 25 and the remaining are males, find the ratio of :
- (a) The number of females to number of males.  
 (b) The number of males to number of females.
12. Following is the choice of sweets of 30 students of Class VI.  
 Ladoo, Barfi, Ladoo, Jalebi, Ladoo, Rasgulla, Jalebi, Ladoo, Barfi, Rasgulla, Ladoo, Jalebi, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo, Rasgulla, Ladoo, Ladoo, Barfi, Rasgulla, Rasgulla, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo.
- (a) Arrange the names of sweets in a table using tally marks.  
 (b) Which sweet is preferred by most of the students?

### SECTION – C

13. In a morning walk, three persons step off together. Their steps measure 80 cm, 85 cm and 90 cm respectively. What is the minimum distance each should walk so that all can cover the same distance in complete steps?
14. Draw a circle of radius 4 cm. Draw any two of its chords. Construct the perpendicular bisectors of these chords. Where do they meet?
15. Subtract :
- (a) Rs 5.36 from Rs 8.40  
 (b) 2.051 km from 5.206 km
16. Jaidev takes  $2\frac{1}{5}$  minutes to walk across the school ground. Rahul takes  $\frac{7}{4}$  minutes to do the same. Who takes less time and by what fraction?
17. Express as kg using decimals. (a) 2 g (b) 100 g (c) 26 kg 50 g
18. Present age of father is 42 years and that of his son is 14 years. Find the ratio of
- (a) Age of the father to the age of son, when son was 12 years old.  
 (b) Age of father after 10 years to the age of son after 10 years.  
 (c) Age of father to the age of son when father was 30 years old.

19. The following are the number of electric bulbs purchased for a lodging house during the first four months of a year.

Months	January	February	March	April
No. of bulbs	20	24	30	34

Represent the details by a pictograph.

20. Consider the letters of English alphabets, A to Z. List among them the letters which have
- (a) vertical lines of symmetry  
 (b) horizontal lines of symmetry  
 (c) no lines of symmetry
21. Sweety runs around a square park of side 75 m. Bulbul runs around a rectangular park with length 60 m and breadth 45 m. Who covers less distance?

22. Give expressions in the following cases:
- 12 subtracted from  $z$
  - $n$  multiplied by 2 and 1 subtracted from the product
  - $y$  multiplied by 10 and then 7 added to the product

### SECTION – D

23. Construct with ruler and compasses, angles of following measures: (a)  $30^\circ$  (b)  $45^\circ$
24. Aakash bought vegetables weighing 10 kg. Out of this, 3 kg 500 g is onions, 2 kg 75 g is tomatoes and the rest is potatoes. What is the weight of the potatoes?

25. Following table shows the number of bicycles manufactured in a factory during the years 1998 to 2002. Illustrate this data using a bar graph. Choose a scale of your choice.

Years	Number of bicycles manufactured
1998	800
1999	600
2000	900
2001	1100
2002	1200

- In which year were the maximum numbers of bicycles manufactured?
  - In which year were the minimum numbers of bicycles manufactured?
26. Bob wants to cover the floor of a room 3 m wide and 4 m long by squared tiles. If each square tile is of side 0.5 m, then find the number of tiles required to cover the floor of the room.
27. Complete the table and by inspection of the table find the solution to the equation  $m + 10 = 16$ .
- |        |   |   |   |   |   |   |   |   |   |
|--------|---|---|---|---|---|---|---|---|---|
| m      | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| m + 10 |   |   |   |   |   |   |   |   |   |
28. A truck requires 108 litres of diesel for covering a distance of 594 km. How much diesel will be required by the truck to cover a distance of 1650 km?
29. Determine if the following ratios form a proportion. Also, write the middle terms and extreme terms where the ratios form a proportion.
- 25 cm : 1 m and Rs 40 : Rs 160
  - 39 litres : 65 litres and 6 bottles : 10 bottles

30. By splitting the following figures into rectangles, find their areas

