

KENDRIYA VIDYALAYA GACHIBOWLI , HYDERABAD - 32
SAMPLE PAPER 03 FOR SA - II (2016-17)

SUBJECT: MATHEMATICS

BLUE PRINT : SA-II CLASS VI

Unit/Topic	VSA (1 mark)	Short answer (2 marks)	Short answer (3 marks)	Long answer (4 marks)	Total
Fractions	1(1)	1(2)	1(3)	1(4)	4(10)
Decimals	1(1)	1(2)	1(3)	1(4)	4(10)
Data Handlings	2(2)	1(2)	1(3)	--	4(7)
Mensuration	1(1)	1(2)	1(3)	1(4)	4(10)
Ratio and proportions	1(1)	1(2)	1(3)	1(4)	4(10)
Symmetry	1(1)	--	2(6)	--	3(7)
Practical Geometry	1(1)	1(2)	1(3)	--	3(6)
Total	8(8)	6(12)	8(24)	4(16)	26(60)

MARKING SCHEME FOR SA – II

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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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

The following are the number of electric bulbs purchased for a lodging house during the first four months of a year. (Each bulb symbol represents 10 bulbs.) Answer the question Q1-Q2.








January	
February	
March	
April	

1. Find the numbers of bulbs purchased during February.
2. Find the total numbers of bulbs during the four months.
3. Write 0.125 as fractions in lowest terms.
4. Express the mixed fraction $5\frac{6}{7}$ as improper fractions.
5. The perimeter of a rectangle is 130 cm. If the breadth of the rectangle is 30 cm, find its length.
6. Find the ratio of 500 ml to 2 litres.
7. Draw a circle of radius 3 cm.
8. Find the number of line symmetry in a square.

SECTION – B

9. Nasreen bought 3 m 20 cm cloth for her shirt and 2 m 5 cm cloth for her trouser. Find the total length of cloth bought by her.
10. Divide Rs. 240 in the ratio 3 : 5
11. Draw a line segment of length 9.5 cm and construct its perpendicular bisector.

12. The side of a square hall is 8 m 5 dm. Find the cost of fixing tiles on its floor at the rate of Rs. 300 per sq.m.
13. Following is the pictograph of the number of Maruti Van manufactured by a factory in a particular week.

Days	Number of Maruti Van manufactured	 = 200 Maruti Vans
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
Saturday		

- (a) On which day were the least number of Maruti Van manufactured?
 (b) On which day were the maximum number of Maruti Van manufactured?

14. Simplify: $\frac{5}{8} + \frac{2}{5} + \frac{3}{4}$

SECTION – C

15. Subtract :

- (a) Rs 6.36 from Rs 12.40
 (b) 0.314 kg from 2.107 kg

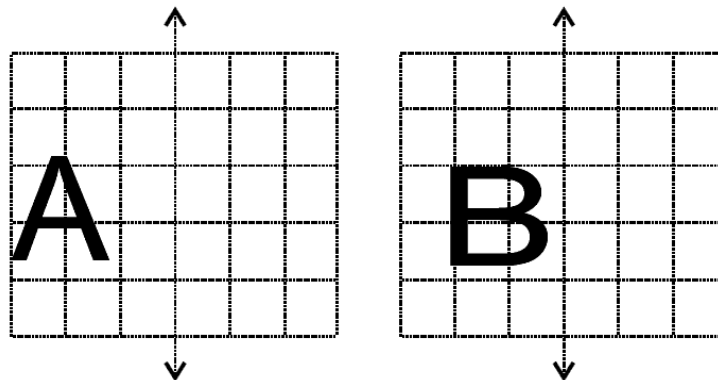
16. A survey of 120 school students was done to find which activity they prefer to do in their free time.

Preferred activity	Number of students
Playing	45
Reading story books	30
Watching TV	20
Listening to music	10
Painting	15

Draw a bar graph to illustrate the above data taking scale of 1 unit length = 5 students. Which activity is preferred by most of the students other than playing?

17. Construct with ruler and compasses, angles of following measures:
 (a) 60° (b) 45°

18. 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?
19. Pinky runs around a square field of side 75 m, Bob runs around a rectangular field with length 160 m and breadth 105 m. Who covers more distance and by how much?
20. 250 people are working in an office, out of which 150 are men and the remaining are women. Find the ratio of (a) the total number of people to that of men (b) the total number of people to that of women (c) the number of men to that of women.
21. In each figure alongside, a letter of the alphabet is shown along with a vertical line. Take the mirror image of the letter in the given line. Find which letters look the same after reflection (i.e. which letters look the same in the image) and which do not.



22. On a squared paper, sketch the following:
- A quadrilateral with both horizontal and vertical lines of symmetry.
 - A hexagon with exactly two lines of symmetry.

SECTION – D

23. Express as metres using decimals.
- 15 cm
 - 2 m 45 cm
 - 9 m 7 cm
 - 419 cm
24. A bucket contains $4\frac{3}{4}$ litres of milk and a can contains $2\frac{3}{4}$ litre of milk. Find the total amount of milk contains? What are the benefits of drinking milk daily?
25. A rectangular path of 60m length and 3m width is covered by square tiles of side 25cm. How many tiles will there be in one row along its width? How many such rows will be there? Find the number of tiles used to make this path?
26. A car travels 180 km in $2\frac{1}{2}$ hours.
- How much time is required to cover 60 km with the same speed?
 - Find the distance covered in 2 hours with the same speed.