KENDRIYA VIDYALAYA GACHIBOWLI, GPRA CAMPUS, HYD–32
SAMPLE PAPER 03 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(4)	1(3)	1(4)	**5(12)**
Data Handlings	1(1)	1(2)	1(3)	1(4)	**4(10)**
Mensuration	--	--	2(6)	2(8)	**4(14)**
Algebra	1(1)	1(2)	1(3)	1(4)	**4(10)**
Ratio and Proportion	1(1)	--	1(3)	2(8)	**4(12)**
Symmetry	--	1(2)	1(3)	--	**2(5)**
Practical Geometry	--	1(2)	1(3)	1(4)	**3(9)**
Total	**6(6)**	**6(12)**	**10(30)**	**8(32)**	**30(80)**

Note:
1) 10% i.e. 8 marks of 1st 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
GRAND TOTAL			80

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SUBJECT: MATHEMATICS **MAX. MARKS : 80**
CLASS : VI **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. Cadets are marching in a parade. There are 5 cadets in a row. What is the rule which gives the number of cadets, given the number of rows?

2. What is the greatest prime number between 1 and 10?

3. 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.) Find the total numbers of bulbs during the four months.
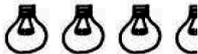
4. What fraction of a day is 8 hours?

5. Find the ratio of 500 ml to 2 litres.

6. Express 2 m 45 cm as metres using decimals.

SECTION – B

7. Express as metres using decimals. (a) 6 cm (b) 2 m 45 cm

8. Draw a line segment of length 9.5 cm and construct its perpendicular bisector.

9. Find the sum in each of the following :
   (a) 0.007 + 8.5 + 30.08
   (b) 15 + 0.632 + 13.8

10. Find the rule, which gives the number of matchsticks required to make matchstick pattern of letter E as ⊨. Use a variable to write the rule.

11. 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 minimum numbers of Maruti Van manufactured?
(b) On which day were the maximum numbers of Maruti Van manufactured?

12. 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.
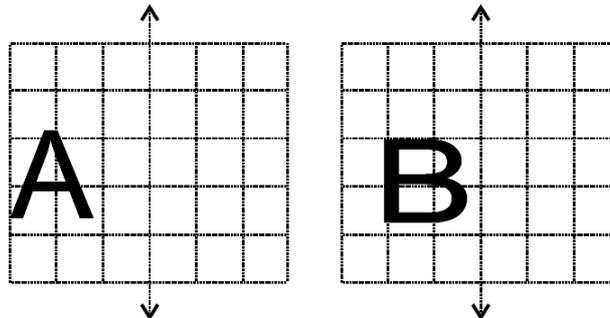
SECTION – C

13. Nandini's house is $\frac{9}{10}$ km from her school. She walked some distance and then took a bus for $\frac{1}{2}$ km to reach the school. How far did she walk?

14. Two tankers contain 850 litres and 680 litres of kerosene oil respectively. Find the maximum capacity of a container which can measure the kerosene oil of both the tankers when used an exact number of times.

15. Subtract :
(a) Rs 6.36 from Rs 12.40
(b) 0.314 kg from 2.107 kg

16. A floor is 5 m long and 4 m wide. A square carpet of sides 3 m is laid on the floor. Find the area of the floor that is not carpeted.

17. 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.

18. 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?

19. Construct with ruler and compasses, angles of following measures: (a) 120° (b) 90°

20. Find the perimeter of each of the following shapes :
(a) A triangle of sides 3 cm, 4 cm and 5 cm.
(b) An equilateral triangle of side 9 cm.
(c) An isosceles triangle with equal sides 8 cm each and third side 6 cm.

21. On a squared paper, sketch the following:
 (a) A quadrilateral with both horizontal and vertical lines of symmetry.
 (b) A hexagon with exactly two lines of symmetry.

22. In a year, Seema earns Rs 1,50,000 and saves Rs 50,000. Find the ratio of
(a) Money that Seema earns to the money she saves.
(b) Money that she saves to the money she spends.

SECTION – D

23. Draw a rough figure and label suitably in each of the following cases:
(a) Point P lies on $\overline{AB}$.
(b) $\overleftrightarrow{XY}$ and $\overrightarrow{PQ}$ intersect at M.
(c) Line l contains E and F but not D.
(d) $\overrightarrow{OP}$ and $\overrightarrow{OQ}$ meet at O.

24. 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?

25. A car travels 180 km in $2\frac{1}{2}$ hours.

(a) How much time is required to cover 60 km with the same speed?
(b) Find the distance covered in 2 hours with the same speed.

26. Namita travels 20 km 50 m every day. Out of this she travels 10 km 200 m by bus and the rest by auto. How much distance does she travel by auto?

27. Determine if the following ratios form a proportion. Also, write the middle terms and extreme terms where the ratios form a proportion.

(a) 2 kg : 80 kg and 25 g : 625 g   (b) 200 ml : 2.5 litre and Rs 4 : Rs 50

28. Following table shows the monthly expenditure of Imran's family on various items.

Items	Expenditure (in Rs)
House rent	3000
Food	3400
Education	800
Electricity	400
Transport	600
Miscellaneous	1200

To represent this data in the form of a bar diagram, here are the steps.

(a) Draw two perpendicular lines, one vertical and one horizontal.

(b) Along the horizontal line, mark the 'items' and along the vertical line, mark the corresponding expenditure.

29. By splitting the following figures into rectangles, find their areas (The measures are given in centimetres).
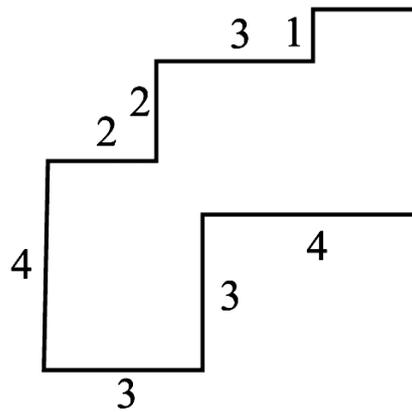
30. Complete the table and by inspection of the table find the solution to the equation $m - 7 = 3$.

m	7	8	9	10	11	12
m – 7						