

Roll No.

Code : S8MA603

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION
SESSION ENDING EXAMINATION- 2018-19

CLASS - VI
MATHEMATICS

Sl. No. 2541

Time - 2½ Hrs.]

[Maximum Marks - 80

SECTION - A (6 × 1 = 6)

1. Draw a circle and mark its centre and diameter.
2. Write each of the following as decimals :
(a) $\frac{5}{10}$ (b) $\frac{77}{10}$
3. Perimeter of rectangle = 2(_____ + _____).
4. Observe the given number pattern carefully and complete it.
1, 4, 9, 16, _____, _____.

5. Write the expression for each statement :

(a) 7 subtracted from x.

(b) P divided by 5.

6. Fill in the following boxes :

$$\frac{15}{10} = \frac{\square}{30} = \frac{60}{\square}$$

SECTION - B (2 × 6 = 12)

7. Express as km using decimals

(a) 500 m

(b) 200 m

8. Total number of animals in five villages are as follows :

Village A - 80

Village B - 120

Village C - 90

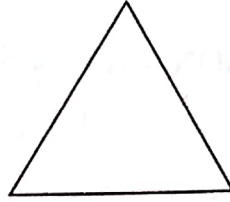
Village D - 40

Village E - 60

Prepare a pictograph of these animals using one symbol ⊕ to represent 10 animals.

Turn Over

9. Find the perimeter of a triangle whose sides are 10 cm, 12 cm and 16 cm.
10. Are 30, 40, 45 and 60 in proportion ?
11. Write True (T) or False (F) against each of the following :
- (a) $16 : 24 :: 20 : 30$ (b) $12 : 18 :: 28 : 12$
12. Trace the figure and Draw the line(s) of symmetry.



SECTION - C (3 × 10 = 30)

13. Insert commas suitably and write the number names according to Indian system of numeration :
- (i) 87540329 = (ii) 98432701 = (iii) 1234567 =
14. A survey of 120 school students was done to find which activities they prefer to do in the free time.

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

Draw the 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 ?

- 15. Find the area of a piece of cloth 2 m long and 1.5 m wide in square metre.
- 16. 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	10
m + 10	---	---	---	---	---	---	---	---	---	---

- 17. A room is 4 m long and 3 m 50 cm wide. How many square metres of carpet is needed to cover the floor of the room ?
- 18. Raju bought a book for Rs. 35.65. He gave Rs. 50 to the shopkeeper. How much money did he get back from the shopkeeper ?
- 19. Find the ratio of the following :
 - (i) 30 minutes to 1.5 hours
 - (ii) 40 cm to 1.5 m
- 20. A motorbike travels 220 km in 5 litres of petrol. How much distance will it cover in 2 litres of petrol ?
- 21. List any three symmetrical objects from your surrounding.
- 22. Draw a line segment of length 8.5 cm and construct its perpendicular bisector.

SECTION - D (4 × 8 = 32)

- 23. Find the least number which when divided by 6, 15 and 18 leaves remainder 5 in each case.
- 24. Abhishek had Rs. 7.45. He bought toffees for Rs. 5.30. Find the remaining amount left with Abhishek.

Turn Over

25. Number of persons in various age groups in a town is given in the following table.

Age group	1- 14	15- 29	30 - 44	45- 59	60 - 74	75 and above
Number of Persons	2 lakhs	1 lakh 60 thousand	1 lakh 20 thousand	1 lakh 20 thousand	80 thousand	40 thousand

Draw a bar graph to represent the above information (take 1-unit length=20 thousands). Which two age groups have the same population ?

26. 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 floor that is not carpeted.
27. A bus travels at y 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 y .
28. Raju purchases 10 Pens for Rs. 150 and Manish purchases 7 Pens for Rs. 84. Who got the Pens cheaper ?
29. Construct a triangle which has
- exactly one line of symmetry.
 - no line of symmetry.
30. Construct an angle of 45° with ruler and compass and bisect it. Write the steps of construction.
