

KENDRIYAVIDYALAYA SANGATHAN LUCKNOW REGION
SESSION-ENDING RE-XAMINATION (2023-24)

SUBJECT: MATHEMATICS

MAX.MARKS:60

CLASS: VI

DURATION:-2HR. 30MIN

General Instructions:

- (i) All the questions are compulsory.
(ii) The question paper consists of 30 questions divided into 4 sections A,B,C, and D.
(iii) **Section A** comprises of 15 questions of **1 mark** each. **Section B** comprises of 5 questions of **2marks** each. **Section C** comprises of **5** questions of **3 marks** each. **Section D** comprises of **5** questions of **4marks** each.
(iv) Internal choices are provided in 1 questions of section B, 2 questions of section C and 2 questions of section D.
(v) Use of calculator is not permitted.
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SECTION A

1. A submarine is moving at a depth, eight hundred metre below the sea level.
(a) +800 (b) -800 (c) +800 m (d) -800 m
2. Express 5 paise in rupees using decimals-
(a) 0.5 rupees (b) 0.05 rupees (c) 0.005 rupees (d) 0.0005 rupees
3. Express 8888 m in km using decimals-
(a) 0.8888 km (b) 8.888 km (c) 88.88 km (d) 888.8 km
4. Express 5 kg 8 g in kg using decimals-
(a) 5.8 kg (b) 5.08 kg (c) 5.008 kg (d) 5.0008 kg

Observe the following table for question no. 5 and 6

Blood group	Number of students
A	9
B	6
O	12
AB	3

5. Which blood group is the rarest?
(a) A (b) B (c) O (d) AB
6. What is the total number of students of all the blood groups?
(a) 3 (b) 12 (c) 30 (d) 15

7. The rule which gives the number of matchsticks required to make the pattern **L** is-

- (a) $2n$ (b) $3n$ (c) $4n$ (d) $5n$

8. The side of a square is **z** then it's perimeter is-

- (a) $4a$ (b) $4b$ (c) $4z$ (d) $4l$

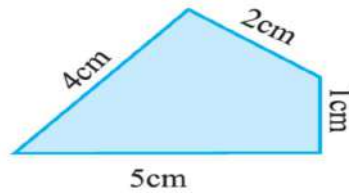
9. The algebraic expression for 2 times **p** to which 1 is added-

- (a) $2x+1$ (b) $2p+1$ (c) $1-2x$ (d) $2p-1$

10. Find the distance travelled by Sangeeta if she takes 5 rounds of a square park of side 10 m-

- (a) 200 m (b) 300 m (c) 400 m (d) 500 m

11. Find the perimeter of given figure-



- (a) 9 cm (b) 6 cm (c) 12 cm (d) 8 cm

12. If the length and breadth of a rectangle is 4 m and 2 m then it's area is-

- (a) 6 m (b) 12 m (c) 8 m^2 (d) 8 m

13. The ratio of 30 minutes to 1 hour -

- (a) 30 : 1 (b) 1 : 2 (c) 2 : 1 (d) 1 : 1

14. Which of the following are in proportion?

- (a) 2,3,20,30 (b) 3,4,15,18 (c) 1,3,11,22 (d) 2,5,40,80







15. A car requires 5 L of petrol to cover 80 km. How many Liters of petrol are required to cover 32 km?

- (a) 1 (b) 2 (c) 3 (d) 4

SECTION B

16. Represent **-6** on number line.

17. Following pictograph shows the number of tractors in five villages-

Villages	Number of tractors	 - 1 Tractor
Village A		
Village B		
Village C		
Village D		
Village E		

Observe the pictograph and answer the following questions.

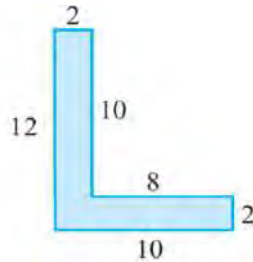
- (i) Which village has the minimum number of tractors?
- (ii) Which village has the maximum number of tractors?

18. Find the perimeter of a regular hexagon with each side measuring 8 m.

OR

Find the area of a rectangle whose sides are 3 cm and 4 cm.

19. Split the following shape into rectangles and find their areas. (The measures are given in centimetres)



20. There are 102 teachers in a school of 3300 students. Find the ratio of the number of teachers to the number of students.

SECTION -C

21. Find sum -

- (a) 137 and -354
- (b) -52 and 52
- (c) -312, 39 and 192

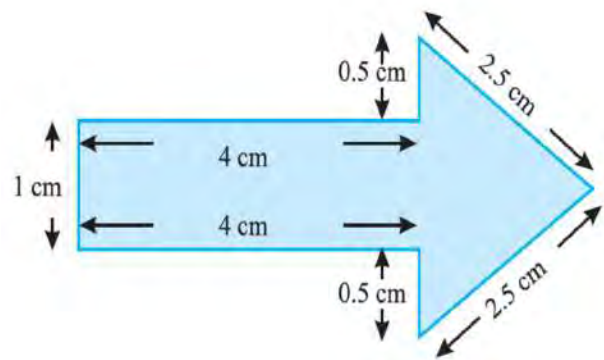
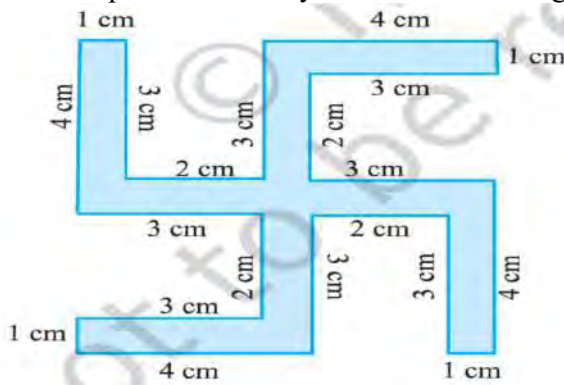
22. Nasreen bought 3 m 20 cm cloth for her shirt and 2 m 5 cm cloth for her trouser. Find the total length of cloth bought by her.

23. 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? (Use n for the number of rows.)

OR

If there are 50 mangoes in a box, how will you write the total number of mangoes in terms of the number of boxes? (Use b for the number of boxes.)

24. Find the perimeter of any one of the following figure :



OR

25. In a college, out of 4320 students, 2300 are girls. Find the ratio of-

- (a) Number of girls to the total number of students.
- (b) Number of boys to the number of girls.
- (c) Number of boys to the total number of students.

SECTION D

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?

OR

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?

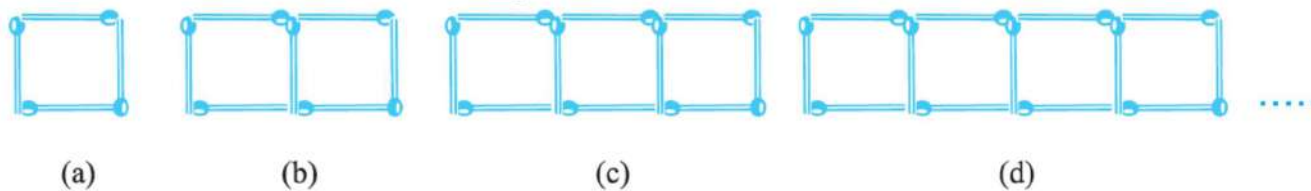
27. Catherine threw a dice 40 times and noted the number appearing each time as shown below :

1	3	5	6	6	3	5	4	1	6
2	5	3	4	6	1	5	5	6	1
1	2	2	3	5	2	4	5	5	6
5	1	6	2	3	5	2	4	1	5

Make a table and enter the data using tally marks. Find the number that appeared.

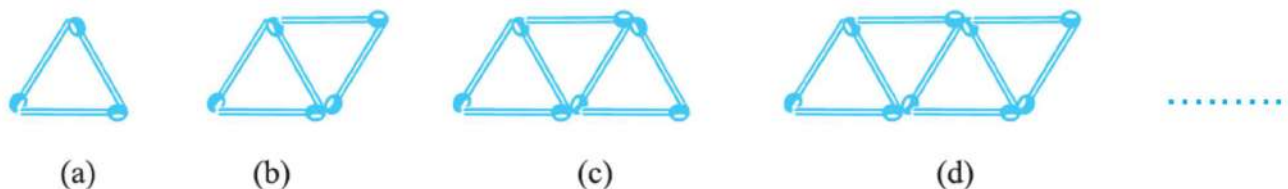
(a) The minimum number of times (b) The maximum number of times

28. Look at the following matchstick pattern of squares in given figure. The squares are not separate. Two neighbouring squares have a common matchstick. Observe the patterns and find the rule that gives the number of matchsticks in terms of the number of squares.



OR

In figure gives a matchstick pattern of triangles. Find the general rule that gives the number of matchsticks in terms of the number of triangles.



29. 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?

30. Present age of father is 42 years and that of his son is 14 years. Find the ratio of

- (a) Present age of father to the present age of son.
- (b) Age of the father to the age of son, when son was 12 years old.
- (c) Age of father after 10 years to the age of son after 10 years.
- (d) Age of father to the age of son when father was 30 years old.