

BHARTIYA SHIKSHA BOARD
Model Paper – Half yearly
MATHEMATICS - Class 6
Session 2025-26

Blary
13/11/25

Time: 3 Hours

Max Marks: 80

Instructions:

- Read the questions carefully.
- Please check that this question paper contains 05 printed pages.
- **10** minutes extra time is allowed to read this question paper. During this time, students will only read the question paper and not write the answer.
- This question paper contains **38** questions. All questions of this question paper are compulsory to attempt.
- This question paper comprises of four **section A, B, C and D.**
Section A: Q.no.1 to 20, each question carries **1** mark.
Section B: Q.no. 21 to 27, each question carries **2** marks.
Section C: Q.no. 28 to 36, each question carries **4** marks.
Section D: Q.no. 37 and 38, each question carries **5** marks.
- There is no overall choice in this question paper. However, an internal choice has been given in 2 questions of 2 marks each and 2 questions of 4 marks each. You have to attempt only one of the choices in such questions.

Section-A

1. What is the Vedic name of one lakh. (1)
(a) Ayutam (b) Niyutum (c) Arbudam (d) Antah
2. How many millions make a crore. (1)
(a) 10 (b) 100 (c) 1000 (d) 50
3. Roman number L stands for : (1)
(a) 40 (b) 60 (c) 50 (d) 100
4. What is the ancient name for Geometry? (1)
(a) Rekha Ganit (b) Beej Ganit (c) Ank Ganit (d) none of these
5. Which of the following statement is NOT true about the whole numbers: (1)
(a) They are close under addition
(b) They are close under subtraction
(c) They are close under multiplication
(d) None of these

6. What is the main subject of Mahavir's work in Ganit Sara Sangraha. (1)
- (a) the study of polygons and their properties.
 (b) The construction of Vedic alters.
 (c) A details discussion on triangle and quadrilaterals.
 (d) The properties of quadrilateral such as diagonal, angles and sides.
7. Two numbers with only 1 as the common factor are called _____. (1)
- (a) Even number (b) odd number
 (c) Co-prime number (d) Composite number
8. _____ is the factor of every number. (1)
- (a) 1 (b) 2 (c) 0 (d) none of these
9. Which of the following is an Obtuse angle? (1)
- (a) 30° (b) 90° (c) 110° (d) 360°
10. How many lines can pass through the two given points. (1)
- (a) Only one (b) two (c) three (d) five
11. Write the following integer in increasing order: (1)
- 5, -4, 2, 0, 7, -8
12. Write true or false: (1)
- (a) A trapezium has no parallel sides. ()
 (b) All sides of a rhombus are equal. ()
13. Write a number which forms a simple close curve. (1)
14. Write a number that is divisible by 2 but not by 10. (1)
15. Fill in the blanks: (1)
- (a) _____ is the only even prime number.
 (b) _____ is the smallest odd composite number.
16. Write the one difference between line and line segment. (1)
17. How many prime numbers are there in between 30 and 40? (1)
18. Complete the following pattern: (1)
- 536, 530, 524, _____, _____

19. Statement(S): A pair of opposite sides of a square are parallel line. (1)

Reason(R): parallel line may be extended to any length but they do not meet.

- (a) Both (S) and (R) are true (b) Both (S) and (R) are false
(c) (S) is false but (R) is true (d) (S) is true but (R) is false

20. Statement(s): when you multiply a number by 1, the product is always the same as the original number. (1)

Reason(R): The number 1 is multiplicative identity.

- (a) Both (S) and (R) are true (b) Both (S) and (R) are false
(c) (S) is false but (R) is true (d) (S) is true but (R) is false

Section B

21. Write the following in Roman numerals: (2)

- (a) 96 (b) 57

22. Fill in the blanks: (2)

(a) $18 + 15$ is a _____ number.

(b) $17 + (12 + 10) = (\text{_____} + 12) + \text{_____}$

23. Subtract 3 from 7 by using the number line. (2)

OR

Find the integers between -3 and 2.

24. What kind of special angle will it be if its measure is: (2)

- (a) 90° (b) 180°

25. Find the HCF of 12 and 15. (2)

26. Write the all factors of 100. (2)

Or

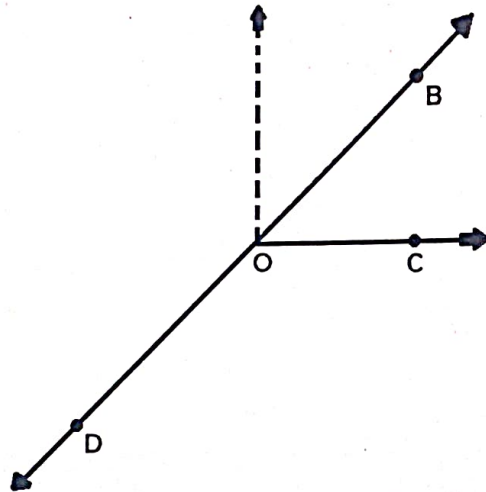
Write the first four multiples of 13.

27. Write four negative integers preceding -2. (2)

Section C

28. Use the given figure to name the following.

(4)



- (a) four point
- (b) A line
- (c) Two rays in same direction
- (d) Two line segment

29. Match the columns

(4)

- | | |
|--------|----------------------|
| (a) 48 | (i) multiple of 7 |
| (b) 49 | (ii) factor of 81 |
| (c) 11 | (iii) multiple of 24 |
| (d) 9 | (iv) factor of 33 |

30. During sports day, three flag posts of height 660cm, 520cm and 340cm need to be installed. Find the length of longest tape that can measure these three heights exactly.

(4)

Or

Write the number of sides of the following polygons.

- (a) Heptagons
- (b) Quadrilateral
- (c) Octagon
- (d) Decagon

31. What type of angle made by hour hand of a clock when it move from the following.

(4)

- (a) 12 to 2
- (b) 3 to 6

32. Find the HCF of 500 and 675 using the division method.

(4)

33. Find the sum and difference of the largest and the smallest five-digit number. (4)

34. A carton can hold 50 packets of biscuits. Each packet has 12 biscuits. Find the total number of biscuits in 35 such cartons. (4)

Or

Find the least number which when divided by 42, 60 and 70 leaves the remainder 5 in each case.

35. Identify the types of quadrilateral. (4)

(a) A quadrilateral with at least one pairs of opposite sides parallel.

(b) A parallelogram in which each angle is right angle.

36. Find the HCF, if the product of the numbers is 450 and their LCM is 150. (4)

Section D

Case Study questions:

37. A company has 40 workers, 5 managers and 1 chief. They decided to donate money for flood victims. Each worker donate ₹10,000, each manager ₹50,000 and the chief ₹5,00,000 respectively. (5)

(a) What was the total amount donated by 5 managers?

(b) What was the total amount donated by 5 managers and 1 chief?

Or

What was the total amount donated by 40 workers?

(c) What was the total amount donated by company?

38. An NGO from North Delhi came forward to create awareness on education among the poor students and motivate them to achieve big in their life. They distributed some books and some pens among the poor students. They believed that gifting books and pens is a symbolic representation which emphasises on importance of the education. The cost of a book is ₹350 and the cost of a pen is ₹50. (5)

(a) Write the cost of the book in Roman numerals.

(b) Write the total cost of the books and pens together.

(c) Find the cost of 25 books.

Or

Find the cost of 100 pens.