# **CBSE Board Class VI Mathematics Term I Sample Paper 4**

Time: 2 ½ hours

Total Marks: 80

#### **General Instructions:**

- 1. All questions are compulsory.
- 2. Section A comprises of 12 questions carrying 1 mark each.
- 3. Section B comprises of 12 questions carrying 2 marks each.
- 4. Section C comprises of 8 questions carrying 3 marks each.
- 5. Section D comprises of 5 questions carrying 4 marks each.

# **Section A**

## (Questions 1 to 12 carry 1 mark each)

- What comes just before 1000000? 1.
  - 99999 A.
  - 999999 B.
  - C. 9999999
  - 10000001 D.
- 2. The successor of -111 is as shown below:
  - A. -11
  - B. -110
  - C. -10
  - D. -112

 $\frac{15}{18}$  is equivalent to which of the following fractions shown below? 3.

- 5 6 A.
- B.
- C.
- D.
- $\frac{6}{5}$   $\frac{3}{5}$   $\frac{5}{3}$

- 4. Which of the following numbers is divisible by 3 but not by 6?
  - A. 138
  - B. 653
  - C. 432
  - D. 531

5. 
$$\frac{1}{3} + \left(\frac{-1}{12}\right) =$$
A. 0
B.  $\frac{1}{4}$ 
C.  $\frac{-1}{9}$ 

- D.  $\frac{1}{9}$
- 6. How many pairs of adjacent angles does a quadrilateral have?
  - A. Two
  - B. Three
  - C. Four
  - D. Six
- 7. What does the following number line represent?



8. If the number can be divided by the numbers 2 and 3, then that number is divisible by

A. 6

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- B. 9
- C. 11
- D. 5

- 9. CCCXL is
  - A. 300
  - B. 340
  - C. 360
  - D. 380
- 10. What fraction of a clock wise revolution does the hour hand of a clock turn through when it goes from 3 to 9?

A.  $\frac{1}{2}$ B.  $\frac{1}{3}$ C.  $\frac{1}{4}$ D.  $\frac{2}{3}$ 

- 11. Which of the following will not represent zero?
  - A. 1+0
  - B.  $0 \times 0$
  - C.  $\frac{0}{2}$ D.  $\frac{10-10}{2}$
- 12. Name the following shape:



- A. Cube
- B. Cuboid
- C. Cone
- D. Cylinder

#### Section **B**

## (Questions 13 to 24 carry 2 marks each)

- 13. Complete the following patterns by using the distributive property of multiplication over addition for whole numbers:
  - 101 × 33 = 3333 101 × 333 = 33633 101 × 3333 = ? 101 × 33333 = ?
- 14. Solve the following in the most convenient manner using an appropriate property:  $(74 \times 126) - (74 \times 32) + (74 \times 16)$
- 15. Estimate the sum to nearest thousand: (21397 + 27807 + 42305).
- 16. Simplify:  $4 \times [10 + (-12)]$
- 17. Name 4 arcs which can be formed in the given circle.



- 18. Write the biggest number and the smallest number in the group of integers?
- 19. Write the names of angles which are neither angles of the triangle nor its exterior angles.



- 20. The sides of  $\Delta DEF$  are 5.3 cm, 4.2 cm and 6.6 cm in length. Write the type of the  $\Delta DEF$ .
- 21. Name the chords of the circle given below.



- 22. Solve  $4\frac{2}{3}+3\frac{1}{4}$
- 23. Examine whether the following are polygons. If any one among them is not, say why?



24. A number is divisible by 12. By what other number will that number be divisible?

# Section C (Questions 25 to 32 carry 3 marks each)

25. Look at the following pattern and answer the following question:



How many circles will be there in the 100<sup>th</sup> step?

- 26. What is the sum of:
  - (a) -52, -36, 42, 8, -22 and 46
  - (b) The largest 4-digit positive integer and smallest 3-digit negative integer?
  - (c) Two integers between 2 and -5 that are inverses of each other.
- 27. Solve (-8 + 12 2) using number line.

28. What should be added to  $9\frac{2}{3}$  to get 19?

29. Draw a circle of radius 3 cm.

Also show one radius, one chord and one diameter in the circle.

30. From the figures given below, state with reason the type of each triangle.



31. Write these fractions appropriately as additions or subtractions:



- 32. What is the HCF of two consecutive
  - (a) Numbers? (b) Even numbers? (c) Odd numbers?

## Section D

# (Questions 33 to 37 carry 4 marks each)

- 33. Draw a circle of radius 4.0 cm. Draw a chord PQ passing through the center of the circle. Answer the following questions.
  - i. What is the chord called?
  - ii. If a circle into two equal parts, then what are the two formed parts called?
  - iii. What are the two regions into which it divides the circular region called?
  - iv. Define a chord.

34. Simplify: 
$$\overline{13+5} + \left[100 \div 10 + \left\{15 \times 2\left(\overline{13-9} \div \overline{4-1}\right)\right\}\right]$$
.

- 35. Determine if 25110 is divisible by 45.
- 36. Draw number lines and locate the following points on them:

$$\frac{2}{5}, \frac{3}{5}, \frac{8}{5}, \frac{4}{5}$$

37. Asha and Samuel have bookshelves of the same size partly filled with books.

Asha's shelf is  $\frac{5}{6}$  th full and Samuel's shelf is  $\frac{2}{5}$  th full. Whose bookshelf is more full? By what fraction?