CBSE Board
Class VI Mathematics
Term I
Sample Paper 2

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)

1. 47896304 _____ 47896340
    A. >
    B. <
    C. is predecessor of
    D. is successor of

2. To add 0 and 4 on number line
    A. move 4 steps to the left of 0
    B. move 4 steps to the right of 0
    C. move 0 steps to the right of 1
    D. move 0 steps to the left of 1

3. The estimation of the product of 52 and 188 is equal to
    A. 9500
    B. 20000
    C. 9000
    D. 10000

4. Prime factorisation of the number 36 is
    A. $2 \times 2 \times 3 \times 3$
    B. $2 \times 2 \times 9$
    C. $2 \times 6 \times 3$
    D. $4 \times 3 \times 3$

5. 13 + (12 – 6 ×3) is _____

    A. 8

    B. 6

    C. 5

    D. 7

6. NO and PQ are
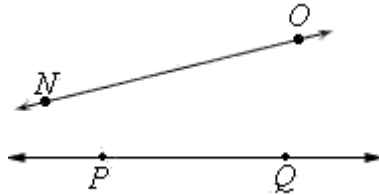
    A. Parallel lines

    B. Intersecting lines

    C. Rays

    D. Line segments

7. What comes just before 1000000?

    A. 99999

    B. 999999

    C. 9999999

    D. 10000001

8. The successor of –111 is

    A. –11

    B. –110

    C. –10

    D. –112

9. $\dfrac{15}{18}$ is equivalent to

    A. $\dfrac{5}{6}$

    B. $\dfrac{6}{5}$

    C. $\dfrac{3}{5}$

    D. $\dfrac{5}{3}$

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

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

12. How many pairs of adjacent angles does a quadrilateral have?
   A. Two
   B. Three
   C. Four
   D. Six

Section B
(Questions 13 to 24 carry 2 marks each)

13. Write the given numerals in words:
   i.   707075
   ii.   53618493

14. What are parallel lines? Does the distance between them vary over their length?

**15.** Write the opposite of each of the following:
   a) Going 6 m to the East
   b) A deposit of Rs 100
   c) 10 km above sea level
   d) Earning Rs 500

16. A village has a population of 13295 people. It increases by an average number of 400 people every year. In a recent survey, it was realised that the population of the village would increase by one less than the average number. What will be the population of village in the successive year assuming that nobody dies in the village in the considered years?

17. The volume of a box is found by multiplying its length l, width w and heighth. If the measure of the volume of a box is 455 cubic cm, what could its dimensions be?

18. What is the value of x in the following parallelogram?
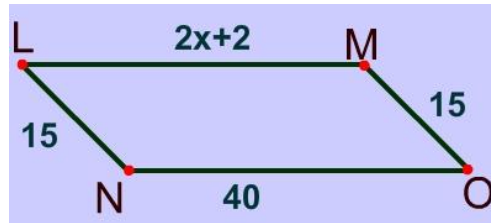
19. Write seven consecutive composite numbers less than 100 and more than equal to 90.

20. Look at the following pattern:
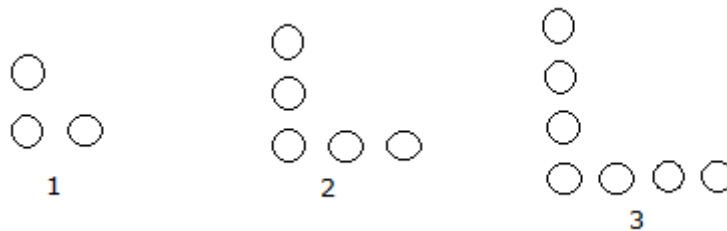
How many circles will be there in the 100th step?

21. Write the prime factors of 20570.

22. Anna is standing on a rock that is 7 feet above sea level. She jumps off the rock. She lands on another rock 3 feet below and then descends 2 feet down. How many feet did she descend in all?

23. Find the sum: $(-13) + (-19) + (+15) + (-10)$.

24. Estimate the sum to nearest thousand: $(21397 + 27807 + 42305)$

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

25. Arrange the following roman numerals in ascending order:
C, D, V, I, X, M

26. Three people are going round a circular field of 360 km circumference. They can travel 48 km, 60km and 72km in a day. When will they meet?

**27.** Convert the fractions $\frac{1}{2}$, $\frac{2}{3}$, $\frac{5}{6}$ and $\frac{4}{9}$ into like fractions

28. In New York, the temperature was -14°F in the morning. If the temperature dropped by 7°F, what is the temperature now?

29. A businessman is to receive Rs. 13550 and Rs. 26788 from two different sources. He has to pay Rs. 37000 to a supplier. Round off the money to nearest thousands and find whether he will be able to pay to his supplier with the money received.

30. Name the following polygon? How many pairs of adjacent sides are there in this polygon? Name them.
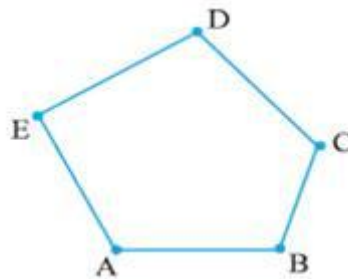
31. From the following figure, indentify the angles:
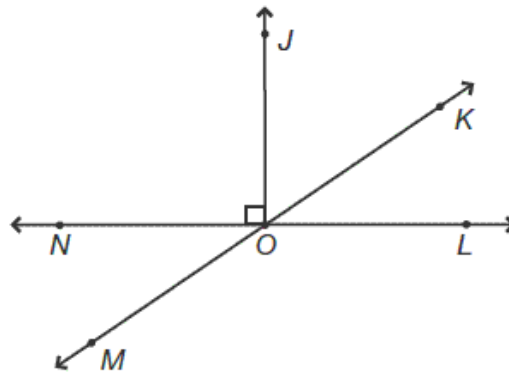
a. Name three acute angles.
b. Name three obtuse angles.
c. Name two straight angles.

32. Find the difference between the least and greatest prime factors of 33,660.

Section D
(Questions 33 to 37 carry 4 marks each)

33. Jenny had a pizza that was divided into 8 equal slices. She ate 3 of them. Danny has a pizza that is the same size, but his is divided into 4 equal slices. He ate 3 slices of his pizza. Who ate more pizza?

34. Solve the following in the most convenient manner using an appropriate property.
   i.   (74 × 126) – (74 × 32) + (74 × 16)
   ii.   1008 × 721

35. Simplify: $\overline{13+5}+\left[100\div10+\left\{15\times2\left(\overline{13-9}\div\overline{4-1}\right)\right\}\right]$.

36. 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.

37. Solve (–8 + 12 – 2) using number line.