

CBSE Board
Class VI Mathematics
Term I
Sample Paper 1

Time: 2 ½ hours

Total Marks: 80

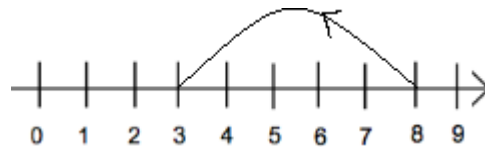
General Instructions:

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. Which of the following statements is shown by the given number line?



- A. $8 - 5 = 3$
B. $8 + 5 = 13$
C. $3 - 8 = -5$
D. $8 + 3 = 11$
2. $12 \times (45 + 30) =$
A. $(12 \times 45) + (12 \times 30)$
B. 12×65
C. $12 \times 45 \times 30$
D. $(12 \times 45) \times (12 \times 30)$
3. The sum of $267 + 132$ to nearest ten is
A. 500
B. 400
C. 300
D. 200

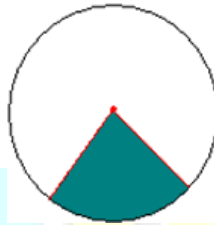
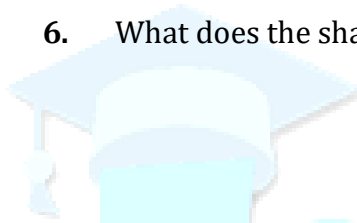
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4. The greatest number that will divide 10 and 18 is
- A. 4
 - B. 2
 - C. 5
 - D. 3

5. Mixed fraction for $\frac{5}{3}$ is

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

6. What does the shaded region in the following figure represent?



- A. Segment of a circle
- B. Radius of a circle
- C. Chord of a circle
- D. Sector of a circle

7. How many thousands make a crore?
- A. 10
 - B. 100
 - C. 1000
 - D. 10000
8. How many whole numbers are there up to 1000?
- A. 1001
 - B. 1000
 - C. 100
 - D. 999

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9. $(-42) + (-35) =$

- A. -7
- B. 7
- C. -77
- D. 41

10. Which is the fifth multiple of 18?

- A. 80
- B. 90
- C. 72
- D. 180

11. The improper fraction for $3\frac{1}{3}$ is _____

- A. $\frac{10}{3}$
- B. $\frac{3}{10}$
- C. $\frac{1}{3}$
- D. $\frac{3}{1}$

12. The English alphabet Z represents a/an _____ curve.

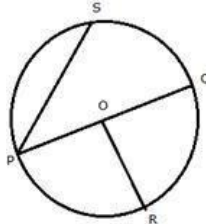
- A. closed
- B. open
- C. polygon
- D. triangle

Section B

(Questions 13 to 24 carry 2 marks each)

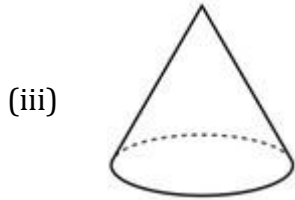
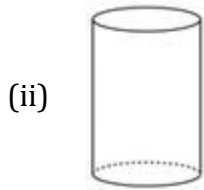
13. Evaluate the difference between the place values of two 9's in the number 79520986.

14. Name all the radii drawn in the given figure.



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15. How many vertices do the following shapes have?



16. Anna is standing on a rock that is 7 feet above sea level. She jumps off the rock and hits another rock 3 feet below and then walks 2 feet down. How many feet did she come down in all?

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

18. Write a 9 digit number in Indian system (in Numerals) and then write it in words according to International system.

19. There is a line on which the points G, H and I lie such that H is in between G and I.

(i) If $\overline{GH} = 31$ and $\overline{HI} = 11$, then find \overline{GI} .

(ii) If $\overline{GH} = 45$ and $\overline{GI} = 61$, then find \overline{HI} .

20. Use divisibility test to determine whether the number 1258 is divisible by 6.

21. Subtract 3 from 8 using a number line.

22. Fill in the blanks with appropriate symbols '>' or '<'.

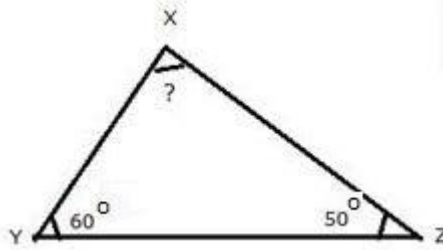
(i) -9 ___ -15

(ii) -10 ___ 10

(iii) 0 ___ 3

(iv) -28 ___ 17

23. In the following triangle, find the measure of $\angle X$.



24. Complete the following patterns by using the distributive property of multiplication over addition for whole numbers:

$$101 \times 33 = 3333$$

$$101 \times 333 = 33633$$

$$101 \times 3333 = ?$$

$$101 \times 33333 = ?$$

Section C

(Questions 25 to 32 carry 3 marks each)

25. Tanvi bought a notebook for Rs $8\frac{3}{4}$ and a pen for Rs $10\frac{2}{5}$. How much money should she pay to the shopkeeper?

26. Arrange the fractions $\frac{2}{3}$, $\frac{1}{6}$, $\frac{5}{9}$ and $\frac{7}{12}$ in ascending order.

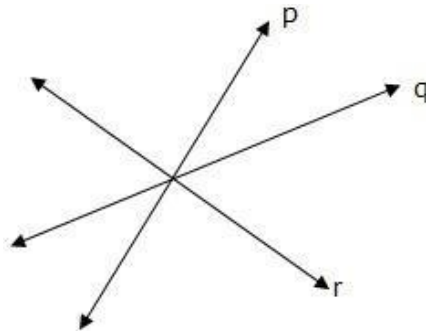
27. The sum of two numbers is 55 and the H.C.F. and L.C.M. of these numbers are 5 and 120 respectively. Find the sum of the reciprocals of the numbers.

28. Answer the following questions for the given figure.

a) What are lines p, q, and r called?

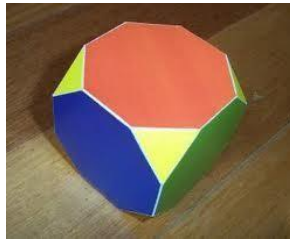
b) What is the point at which they meet called? Label it on the figure.

c) How many lines can pass through the labeled point?

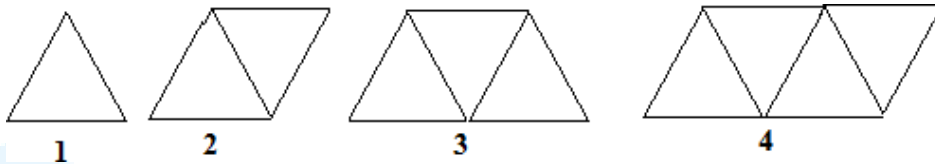


29. Compare the fractions $\frac{7}{12}$ and $\frac{9}{16}$.

30. Each corner of a cube is cut off, leaving a triangular face at each corner and an octagonal face in place of each face of the original cube. How many vertices and faces will the new polyhedron have?



31. Solve $(-8 + 12 - 2)$ using number line.
32. Shweta has made a chart on 'Elementary Shapes'. She develops a pattern for the border using sticks as follows:



Find a rule that helps her find the number of sticks.

Section D

(Questions 33 to 37 carry 4 marks each)

33. The cost of a pen is Rs. $6\frac{2}{3}$ and that of a pencil is Rs. $4\frac{1}{6}$. Which costs more and by how much?
34. Name the type of the triangle:
- $\triangle LMN$ with $\angle L = 30^\circ$, $\angle M = 70^\circ$ and $\angle N = 80^\circ$.
 - $\triangle DEF$ with $\angle D = 90^\circ$.
 - $\triangle PQR$ such that $PQ = QR = PR = 5$ cm.
 - $\triangle XYZ$ with $\angle Y = 90^\circ$ and $XY = YZ$.
35. Simplify: $16 - [5 - 2 + \{7 \text{ of } 2 - (6 \div 3 \times 2 - 1 + 3)\}]$
36. Draw a rough figure and label the following statements:
- Line l contains point A but not B
 - Lines p and q intersect at point o
 - Rays PQ and QR meet to form angle PQR
37. Subtract the sum of $3\frac{5}{9}$ and $3\frac{1}{3}$ from the sum of $5\frac{5}{6}$ and $4\frac{1}{9}$.