

SAMPLE PAPER

CLASS -VI

Time: 3 hours

M.M: 80

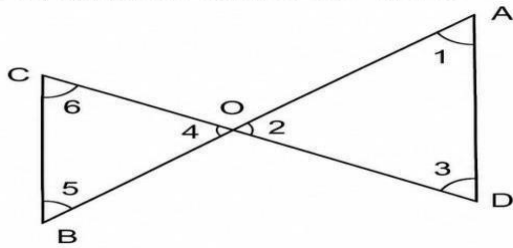
General instructions

1. This question paper contains 38 questions and 5 printed pages.
2. This Question paper contains - five sections A, B, C, D and E. Each section is compulsory. However, there are internal choices in some questions.
3. Section A has 20 MCQ's of 1 mark each.
4. Section B has 5 Very Short Answer (VSA)-type questions of 2 marks each.
5. Section C has 6 Short Answer (SA)-type questions of 3 marks each.
6. Section D has 3 Long Answer (LA)-type questions of 4 marks each.
7. Section E has 4 questions of 5 marks each with sub parts.

Section – A

- 1) If each symbol ● represent 20 students ,then the number of students represented by ● ●● ● ● ●
A) 4 B) 100 C) 5 D) 72
- 2) The Roman numeral for 85 is
A) LXXXV B) VXC C) LXXIV D) LVX
- 3) Pick out the number which is divisible by 3 but not by 9
A) 381213 B) 318012 C) 318933 D) 332154
- 4) The smallest 7 digit no formed by using digits 2,1,0,4 is
A) 1000142 B) 1000124 C) 1000042 D) 1000024
- 5) The HCF of two consecutive odd numbers is
A) 0 B)1 C)2 D) 3
- 6) The predecessor of (-246) is
A) – 245 B) -247 C) 246 D) 247
- 7) If the LCM of two numbers is 400 and their product is 6400 their HCF is
A) 40 B) 16 C) 80 D) 2560
- 8) The corners of a square represent
A) Point B) Edge C) Side D) Lines
- 9) The prime factorization of 252 is
A) $2 \times 2 \times 3 \times 7 \times 1$ B) $2 \times 2 \times 2 \times 3 \times 7$ C) $3 \times 3 \times 3 \times 3 \times 7$ D) $2 \times 2 \times 3 \times 3 \times 7$
- 10) Square of (-1) subtracted from cube of (-2)
A) -9 B) -8 C) 9 D) 8
- 11) When a transversal intersects two parallel lines in a plane number of pair of Corresponding angle formed are:
A) 8 B) 4 C) 2 D) 6
- 12) Two numbers are said to be co- prime when they have ____ as a common factor
A) 2 B) 5 C) 1 D) 3
- 13) If three lines p, q and r intersect at point X, then the point X is called
A) Concurrent lines B) Intersecting lines C) Point of intersection D) Point of Concurrence
- 14) The value of $-7+11-5$ is
A) 0 B) -1 C) 1 D) 13

15) Number of pairs of alternate angles are there in the figure?

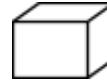


- A) 1 B) 2 C) 3 D) 4

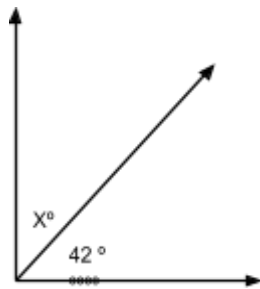
16) $(-1) \times (-1) \times (-1) \times \dots \times (-1)$ 33 times =
 A) (-33) B) 33 C) 1 D) (-1)

17) Number of pair of parallel edges in the figure (cube)

- A) 18 B) 8 C) 12 D) 6



18) In the given figure what are the measures of angle X



- A) 38° B) 48° C) 138° D) 80°

19) The measure of Reflex Angle lies between

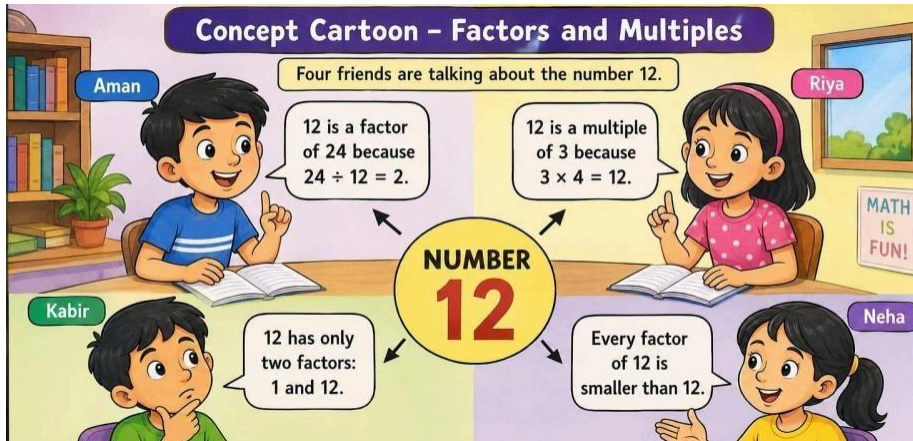
- A) $0^\circ - 90^\circ$ B) $90^\circ - 180^\circ$ C) $180^\circ - 360^\circ$ D) $270^\circ - 360^\circ$

20) A transversal is:

- A) A line that intersects two or more lines a point.
 B) A line that intersects two or more lines at distinct points.
 C) A point where two lines meet.
 D) A type of angle formed by two intersecting lines.

(Section-B)

21) Study the picture carefully and answer the following question



- Who is correct?
- Write all the factors of 12.

22) Find the sum of the following on the number line; $(-5) + (-3) + 12$

23) Find the least number that should be subtracted from 1000 so that 45 divides the difference exactly.

OR

1840 students were to be seated on 20 rows of an auditorium. If equal number of students sat in each row, how many students were there in each row?

24) Below is given the information of number of stamps of different countries collected by a child

Country	No of stamps
India	12
Germany	24
China	15
Japan	18

Show the above information using TALLY MARKS

25) Subtract (-6) from 3 and 3 from (-6) . Are the two results the same?

(Section- C)

26) Simplify:

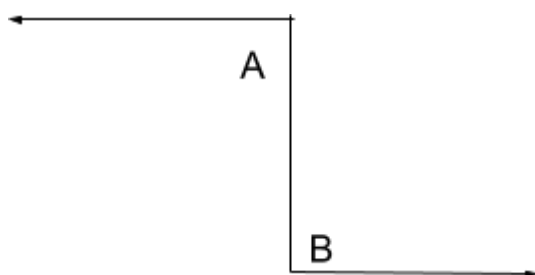
$$84 - [45 - \{60 \div 10 - (9 + 3 - 7)\}]$$

27) Find the smallest number which when divided by 140, 170, 155 leaving the remainder 5 in each case.

28) Compare $21 \times (-33) \div 3$ and $21 - 33 \div 3$

29) i) Draw a pair of Complementary Adjacent angles.

- ii) How many degrees are there in $\frac{2}{3}$ Straight angles?
- 30) i) Test the divisibility of 58334661 by 11.
 ii) Express 32 as sum of two Odd Primes.
- OR
- i) Apply the divisibility rule and show that 117904 is divisible by 8.
 ii) Express 91 as a product of Prime.
- 31) In the following figure, are $\angle A$ and $\angle B$ Adjacent angles ? Give reason to support your answer.



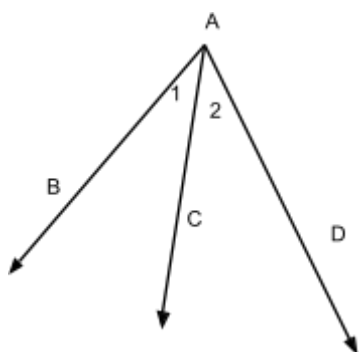
(Section –D)

- 32) At a bus terminal, two buses run on different schedules: The Red Bus arrives every 25 minutes.
 The Blue Bus arrives every 40 minutes.
 If both buses arrive at the terminal together at 10:00 a.m., after how much time will they arrive together again?
- On the basis of above information answer the following questions.
- Find the LCM of 25 and 40.
 - After how many minutes will both buses arrive together again?
 - At what time will they next arrive together?

33) i) Simplify: $(-1)^3 \times (-10)^2 \times (-1)^5$

II) Divide (-132) by (-4)

- 34) Look at the figure carefully and answer the following questions



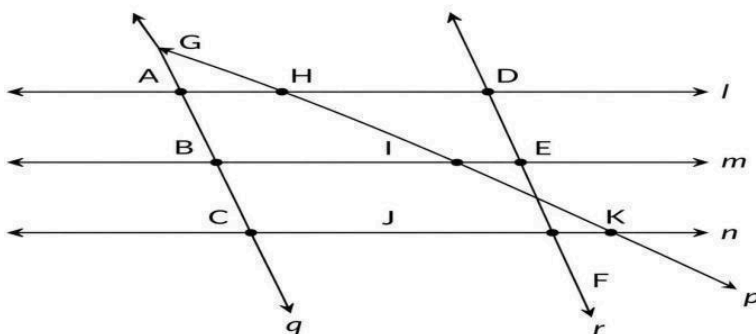
- i) Vertex of $\angle 1$ is _____.

- ii) Another name of $\angle DAC$ is ____.
- iii) Number of angles formed in the figure are ____
- iv) Common arm of $\angle 1$ and $\angle 2$ is ____.

(Section –E)

- 35) i) Add the following by REARRANGING them $469 + 117 + 31 + 283$
- ii) Find the product using distributive property $782 \times 10 + 782 \times 91 - 782$

36) In the given figure name-



- i) A pair of parallel lines.
- ii) A pair of intersecting lines.
- iii) Lines whose intersection point is A.
- iv) A set of collinear points.
- v) Point of intersection of lines p and q

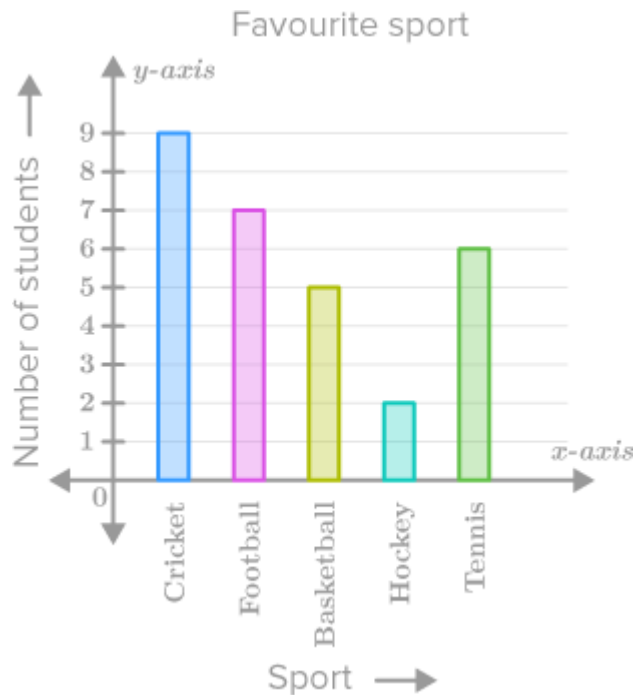
37) The following table shows the number of Maruti cars sold by five dealers in a particular month.

Dealer	Saya	Bagga Links	D.D. Motors	Bhasin Motors	Competent Motors
Car sold	60	40	25	35	45

Prepare a Bar graph for the above information using appropriate scale.

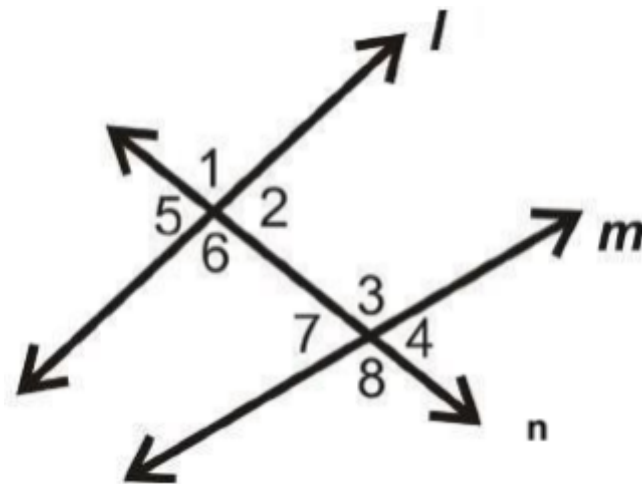
OR

The following bar graph showing the number of students and their favorite sports, observe it carefully and answer the following questions



- i) What information is given by the bar graph?
- ii) In which sport the maximum number of students involved?
- iii) How many more students are there in Football than Tennis?
- iv) In which sport has the least number of participants is there?
- v) What is the total number of students in the class?

38)i) Look at the figure carefully and name ;



- 1) An angle corresponding to angle 8.
- 2) An angle alternate to 6
- 3) $1+2=$ ___ -
- 4) Name the transversal
- 5) A pair of alternate Exterior angles.