

**DAV BR PUBLIC SCHOOL, BINA**  
**HALF YEARLY EXAMINATION (2024-25)**  
**PRACTICE PAPER**

Class: VI  
Time – 2:00 Hrs

Subject: Maths  
MM- 50

**Q -1 CHOOSE THE CORRECT ANSWER:-**

**1 x 6 = 6**

- a) Which of the following is a Hindu Arabic numeral of LXIV :
- i) 68                      ii) 64                      iii) 65                      iv) 90
- b) Which of the following number is divisible by 6:
- i) 943                      ii) 945                      iii) 534                      iv) 453
- c) Value of  $-12 + 18 - 7$  is :
- i) -1                      ii) 1                      iii) -23                      iv) 23
- d) An angle which measures exactly 90 degrees, is called:
- i) Acute angle                      iii) Right angle  
ii) Obtuse angle                      iv) Straight angle
- e) A triangle with any two of its sides equal , is called :
- i) Scalene triangle                      iii) Isosceles triangle  
ii) Right angled triangle                      iv) Equilateral triangle
- f) A transversal line when passes through two parallel line, forms:
- i) 4 angles                      ii) 6 angles  
ii) 8 angles                      iv) 10 angles


**Q -2 Solve the following :**

**2 x 6 = 12**

- a) Form the greatest and smallest 8- digit number using the digits 3,4,0,1, and 9
- b) Find the value of  $(-1)^{12} + (-1)^{11} + (-1)^{10}$
- c) Draw a triangle PQR. Name its sides ,angles and vertices.
- d) What are collinear points. Draw a figure to show three collinear points A , B and C.
- e) Draw a line segment PQ= 8.5 cm using a ruler and compass.
- f) Find the complementary angle of 45 degree.

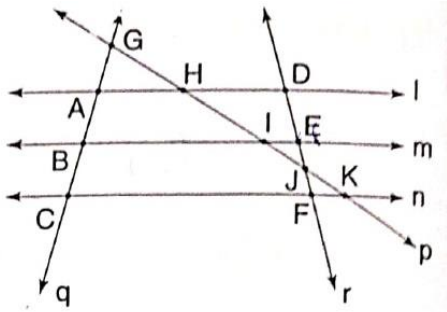
**Q - 3 Solve the following:**

**3x 6 = 18**

- a) Simplify :  $10 - 28 \div 7 \times 5 + 3$
- b) Compare :  $15 - 6 \times 8$    $15 \times ( 6 - 8)$
- c) Using a ruler and compasses , draw a line segment AB= 9 cm. Now

draw another line  $AC = 3.5$  cm on it. Find the length of  $BC$ .

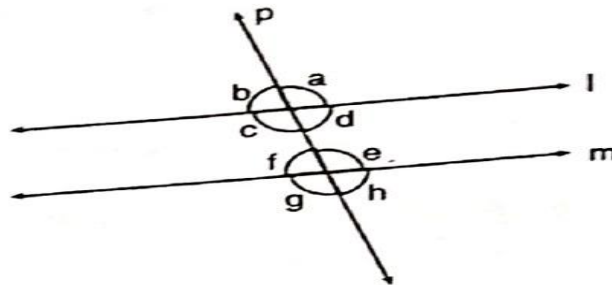
d) Look at the given figure and name the following:



- i) Name all the sets of parallel lines
- ii) Three pairs of intersecting lines
- iii) Three sets of intersecting lines

e) In a right angled triangle one of the angle is  $40^\circ$ . Find all the angles of the triangle.

f) In the given figure, name the following:

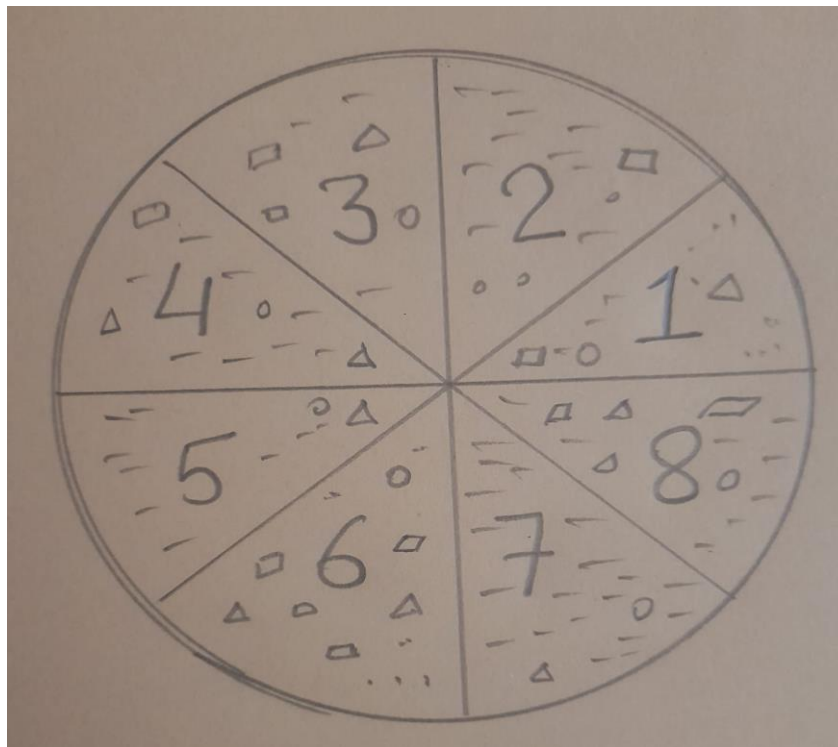


- i) All the interior angles
- ii) Alternate angles of  $\angle a$  and  $\angle c$
- iii) Corresponding angle of  $\angle d$  and  $\angle b$

**Q 4**

**Case Study Based Question**

**Pihu wants to celebrate her birthday with her friends, so she ordered a pizza from Pizza Corner, Bina. She invited her 8 friends and divided the pizza in 8 equal pieces as shown in the figure given below. All the friends enjoyed the party.**



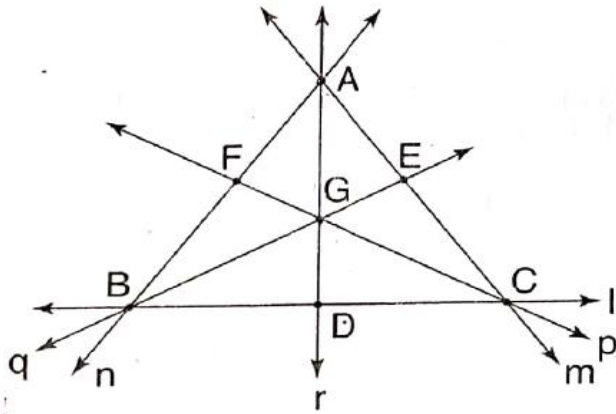
**On the basis of above case, answer the following questions:**

- a) What type of angle is formed by pizza pieces 1, 2 and 3 together?
- i) Acute
  - ii) Right
  - iii) Obtuse
  - iv) Straight
- b) What is the total sum of all the angles formed by Pizza slices ?
- i)  $180^{\circ}$
  - ii)  $270^{\circ}$
  - iii)  $360^{\circ}$
  - iv)  $420^{\circ}$
- c) What will be the measure of angle formed by one piece of Pizza slice:
- i)  $60^{\circ}$
  - ii)  $30^{\circ}$
  - iii)  $90^{\circ}$
  - iv)  $45^{\circ}$
- d) The lines passing through the center of pizza, are called:
- i) Intersecting lines
  - ii) Parallel Lines
  - iii) Concurrent lines
  - iv) Perpendicular lines

**Q 5 Solve the following:**

**5 x 2 = 10**

- a) Find the HCF of 250 and 375 using continued division method, also find the LCM of these numbers using LCM -HCF property.
- b) Look at the given figure and name the following:



- i) Point of concurrence of lines p, l and m
- ii) Any two sets of collinear points
- iii) The lines concurrent at point A
- iv) Any two pairs of intersecting lines
- v) All the lines drawn in the figure