

I. Multiple choice questions: 10x1=10

- The distance between the two points is called \_\_\_\_\_.  
a) Width      b) Area      c) Length      d) Breadth
- The greatest negative integer is \_\_\_\_\_.  
a) 0      b) -1      c) 1      d) -1000
- Fractions with the same denominators are called \_\_\_\_ fractions.  
a) Like      b) Unlike      c) Mixed      d) Improper
- The minimum number of sides in a polygon is \_\_\_\_\_.  
a) 6      b) 2      c) 3      d) 4
- Which letter has the vertical line of symmetry?  
a) D      b) K      c) T      d) K
- $0.5 + 0.5 =$  \_\_\_\_\_.  
a) 1      b) 10      c) 4      d) 25
- Two distinct lines meeting at a point is called \_\_\_\_ lines.  
a) Interior      b) Parallel      c) Intersecting      d) Perpendicular
- Two right angles make a \_\_\_\_\_ angle.  
a) Complete      b) Straight      c) Zero      d) Right
- A \_\_\_\_\_ has six lines of symmetry.  
a) Regular Hexagon      b) Circle      c) Square      d) Triangle
- A \_\_\_\_\_ is used to draw and measure angles.  
a) Ruler      b) Divider      c) Protractor      d) Compass

II. Match the following: 10x1=10

- Square - Half of a revolution
- 1cm -  $l \times b$  sq. units
- $3\frac{6}{4}$  - Polygon
- Straight angle - 10
- $\frac{1}{2}$  - Mixed fraction
- $|1 - 0|$  - To compare lengths
- Area of a rectangle - 10 mm
- Scalene triangle - 7 Hundredth
- 0.07 - 9
- The divider - No lines of symmetry

III. Answer the following: 10x1=10

- Write the given number as fractions (a) 0.75      (b) 0.125.
- Find the perimeter of a square whose side is 10cm.
- Solve:  $40 + 8 + \frac{5}{10} + \frac{7}{100} =$  \_\_\_\_\_ (in decimals)
- Draw and name a 3- dimensional shape.
- In a bar graph, the scale of 2 units = 10 students then 1 unit = \_\_\_\_ students.
- Name any 2 polygons.
- Name the type of the triangle when  $\triangle ABC$  with  $AB = 8\text{cm}$ ,  $BC = 7\text{cm}$  and  $AC = 5\text{cm}$ .
- Write the integer for loss of Rs. 1000.
- List any two letters of English alphates which have no lines of symmetry.
- Write the formula to find the perimeter of an octagon?

SECTION - B (24 marks)

IV. Solve the following: (8 out of 10) 8x3=24

- A piece of a string is 60cm long. what will be the length of each side if the string is used to form (a) A square (b) A regular hexagon.
- The number of laddoos sold by the shopkeeper on different days of a week is shown. (o = 100 laddoos)

Days	No. of laddoos
Monday	oooo
Tuesday	oooc
Wednesday	ooooo
Thursday	ooc

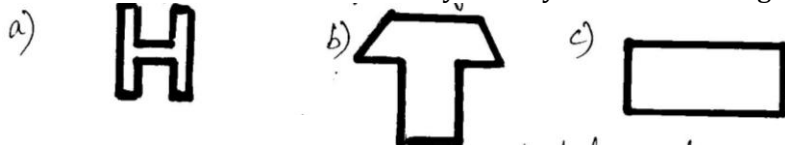
Find the number of laddoos sold on each day. And also find the total number of laddoos sold in a week.

- Express as kg using decimal: a) 30g      b) 8888g
- Solve  $1\frac{4}{10} + 2\frac{8}{10}$ .
- Find the value of the integer using the number line: 7 more than -2.

36. Teena's mother gave her Rs. 20.50 and her father gave her Rs. 15.30.

Find the total amount given to Teena?

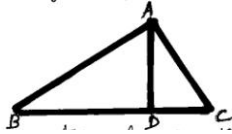
37. Draw and write the number of lines of symmetry for the following:



38. Write the fractions of the shaded portion and find the sum of both the fractions:



39. Observe the figure given and answer the following:



a) Identify three triangles in the figure.

b) Write the names of any three line segments.

40. Draw any circle and mark the following:

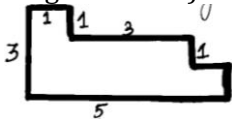
- a) its centre
- b) A radius
- c) A diameter
- d) A sector
- e) A chord
- f) A point in its interior

SECTION - C (20 marks)

V. Word problems: (4 out of 6) (Question 46, compulsory)  $4 \times 5 = 20$

41. Split the given shapes into rectangles and find the area of it.

(Hint. The measures are given in cm)



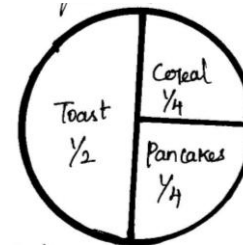
42. Find the cost of fencing a rectangular park of length 200m and breadth 150m at the rate of Rs. 12 per metre.

43. Find the number of right angles turned through by the hour hand of a clock when it goes from.

- a) 2 to 8
- b) 12 to 6
- c) 5 to 11
- d) 9 to 3
- e) 7 to 10

44. In a survey, 200 people were asked to vote on their favorite breakfast.

The pie graph is made according to their responses. Use the pie graph and answer the questions.



- a) How many people like to eat pancakes?
- b) Which morning meal is the favourite choice for half of the people?
- c) How many people like to eat toast?
- d) What fraction of people like cereal?
- e) What are the morning meals mentioned in the chart.

45. The number of shirts sold by a shopkeeper on four consecutive days is shown below.

Days	Monday	Tuesday	Wednesday	Thursday
No. of shirts sold	40	30	50	10

Draw a bar graph to represent the above information choosing an appropriate scale.

46. Sam had 20 chocolates, Ravi had 50 chocolates and Naveen had 80 chocolates. After 2 hours, Sam ate 10 chocolates, Ravi ate 25 chocolates and Naveen ate 40 chocolates. What fraction did each of them eat? Check whether each one of them ate an equal fraction of their chocolate?

SECTION - D (6 marks)

VI. Practical Geometry:

47. Construct a right angle and bisect it. Also write its construction.

(Hint: Use only Ruler and Compasses).