



परमाणु ऊर्जा शिक्षण संस्था
Atomic Energy Education Society
कार्यपत्रक / Worksheet (2026-27)

कक्षा /Class: V विषय /Subject: Mathematics माह/ Month: September अंक/Marks: 40

दिया गया पाठ्यक्रम/Portion covered: Chapter - 7

विद्यार्थी का नाम/Name of the student: _____

अनुक्रमांक /Roll No. _____ कक्षा/अनुभाग Class /Sec.: _____ दिनांक /Date: _____

Section A- Knowledge (10)

A. Choose the correct answer.

(3m)

1. Which shape can tessellate (cover a surface without gaps or overlaps by itself)?

- a) Circle b) Regular Pentagon c) Square d) Regular Octagon

2. How many regular hexagons fit perfectly around one point?

- a) 2 b) 3 c) 4 d) 5

3. A triangle with all sides equal is called a _____.

- a) Scalene triangle b) Right triangle c) Equilateral triangle d) Isosceles triangle

4. Which quadrilateral has opposite sides equal and parallel?

- a) Kite b) Rectangle c) Parallelogram d) Both b and c

5. Which shape does NOT tessellate?

- a) Square b) Equilateral Triangle c) Regular Hexagon d) Regular Pentagon

6. How many regular triangles fit perfectly around one point?

- a) 3 b) 4 c) 5 d) 6

B. Do as directed

(5m)

1. Name any three shapes that tessellate by themselves.

_____, _____, _____

2. What are the three types of triangles based on sides?

_____, _____, _____

3. How many pieces are there in a tangram? Name the non-triangular pieces.

4. Why can four squares fit around a point but five squares cannot?

5. Explain why circles cannot tessellate.

6. Match the Following

(2m)

Column A

Column B

A. 6 triangles meet at a point

1. Pattern

B. Floor tiles

2. Tessellation

C. Rangoli

3. Line of symmetry

D. Mirror line

4. Triangle

Section B-Understanding (10)

A. Fill in the Blanks

(3m)

1. A pattern that repeats without gaps is called _____.
2. An equilateral triangle has _____ equal sides.
3. A quadrilateral has _____ sides.
4. A tangram consists of _____ pieces.
5. Three regular hexagons meet perfectly around _____.
6. _____ is the process of crossing strips over and under each other to make a design.

B. Choose the correct answer.

(3m)

1. Which of the following shapes has three sides?

- a) Rectangle b) Triangle c) Square d) Pentagon

2. Which of the following is NOT a quadrilateral?

- a) Square b) Rectangle c) Triangle d) Kite

3. Which shape has all four sides equal and all angles equal?

- a) Rectangle b) Rhombus c) Square d) Trapezium

4. Which shape can cover a floor completely without leaving any gaps?

- a) Circle b) Square c) Oval d) Pentagon

5. Name any two shapes that can tile a floor without leaving gaps.

- a) Squares and regular hexagons b) squares and circle
c) Rectangle and circle d) triangle and rectangle

6. Four corners of a square together make:

- a) 90° b) 180° c) 270° d) 360°

C. True or False

(4m)

1. Circles tessellate without gaps. _____
2. A kite has two pairs of adjacent equal sides. _____
3. Every square is a rectangle. _____
4. A scalene triangle has all unequal sides. _____
5. Four squares fit around a point perfectly. _____
6. An icosahedron has 20 faces and dodecahedron has 12 faces. _____
7. A pattern is an arrangement that repeats. _____
8. A square has only one line of symmetry. _____

Section C-Ability to compute (10)

A. Choose the correct answer

(2m)

1. Which triangle has all sides equal?

- a) Scalene triangle b) Right triangle c) Isosceles triangle d) Equilateral triangle

2. A triangle with two equal sides is called:

- a) Equilateral triangle b) Scalene triangle c) Isosceles triangle d) Right triangle

3. Which shape has opposite sides equal and all angles 90° ?

- a) Rectangle b) Kite c) Trapezium d) Pentagon

4. Which of the following has no straight sides?

- a) Square b) Triangle c) Circle d) Rectangle

B. Short Answer Questions

(5m)

1. What is a quadrilateral?

2. Nisha painted a large cube made from 27 small cubes.

(a) Cubes with 3 faces painted = _____ (b) Cubes with 2 faces painted = _____

(c) Cubes with 1 face painted = _____ (d) Cubes with no faces painted = _____

3 . Your school wants to design a floor using only one shape. Which shapes would you recommend?

4. Rahul made a pattern using squares and triangles. At every corner, one square and two triangles meet. Is this a tessellation?

5. Give one example of a pattern seen in daily life.

6. Match the Following –

(2m)

Column A

Column B

A. Tessellation

1. Over and under strips

B. Pattern

2. Mirror image

C. Weaving

3. Covers a surface without gaps

D. Symmetry

4. Repeating design

7. Draw a design using circles and colour it

(1m)

Section D-Problem Solving Ability (10)

A. Choose the correct answer

(4m)

1. Which of these is a closed shape?

a) Open curve

b) Zigzag line

c) Triangle

d) Line segment

2. Which of the following is an example of a tessellation?

- a) Coins placed on a table b) Floor tiles made of squares
c) Balls in a basket d) Marbles in a bowl

3. Which combination can make a tessellation?

- a) Squares only b) Circles only c) Ovals only d) Spheres

4. Which shape has two pairs of adjacent equal sides?

- a) Rectangle b) Kite c) Triangle d) Circle

5. Which statement is correct?

- a) Every square is a rectangle. b) Every rectangle is a square.
c) Every kite is a rectangle. d) Every triangle is a quadrilateral.

6. How many vertices does a dodecahedron have?

- (a) 12 (b) 20 (c) 30 (d) 8

7. How many faces does a icosahedron have?

- (a) 12 (b) 20 (c) 30 (d) 8

8. What is a 6 sided shape with equal sides called?

- a) octagon b) hexagon c) pentagon d) heptagon

B. Give two real – life examples each of: **(1m)**

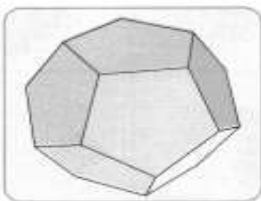
(i) Tessellation _____

(ii) Weaving patterns _____

C .Do as directed.

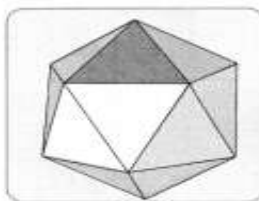
1. Identify the following shapes: **(1m)**

(a)



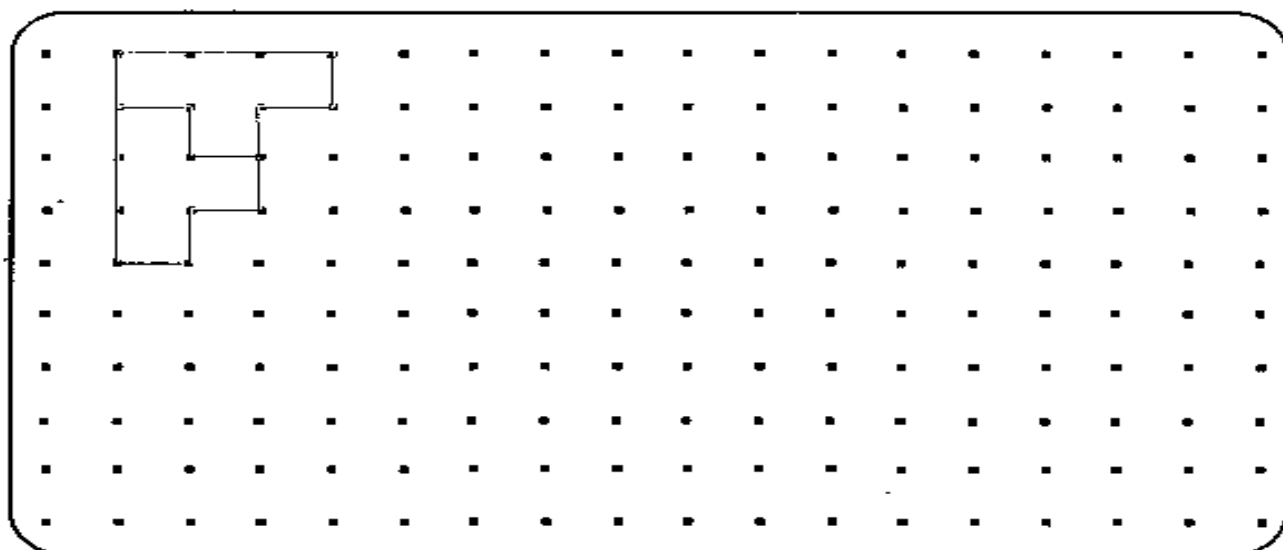
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(b)



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2. Complete the tessellation patterns by adding more shapes to the grid: (1m)



D. Match the following (1m)

Column A

A. Circle

B. Kite

C. Square

D. Triangle

Column B

1. Two pairs of equal adjacent sides

2. No corners

3. Three sides

4. Four equal sides

E. True or False (2m)

1. A rectangle has opposite sides equal. _____
2. A circle has corners. _____
3. A tessellation covers a surface without gaps or overlaps. _____
4. Regular hexagons can fit together without leaving gaps. _____
5. Weaving is done by placing strips over and under each other. _____
6. Five squares can fit perfectly around one point without gaps. _____
7. A parallelogram has opposite sides parallel. _____
8. Patterns can be seen in rangoli, floor tiles, and basket weaving. _____