Nets

A. Choose the correct answer:

1. A net is

- a) a type of rope b) a 2D shape that can be folded to form a 3D shape
- c) a cube d) a flat surface

2. Which 3D shape can be formed using a net of six equal squares

- a) Sphere b) Cylinder
- c) Cube d) Cone

3. Which of the following can be a net of a cuboid

- a) Six circles b) Two rectangles and four squares
- c) Six rectangles d) Four triangles and two squares

4. A cone's net includes

- a) One circle and one sector b) Two rectangles
- c) Three circles d) One triangle and one square

5. A cylinder's net consists of

- a) Two circles and one rectangle b) Three squares
- c) One triangle and two rectangles d) Two spheres

B. Write the Missing Terms to Complete the Sentences:

- 1. A cube's net is made of ______ squares
- 2. A cuboid's net contains _____ rectangles
- 3. The 2D layout that folds into a 3D shape is called a _____
- 4. A cylinder's net consists of two circles and one _____
- A cone's net includes a circle and a ______

C. Mark each sentence with a True (✔) or False (X):

- 1. A net is a 3D object
- 2. All cubes have nets made of six equal squares
- 3. A cylinder's net includes a rectangle

- 4. A cuboid and a cube have the same net
- 5. Nets help us understand how 3D shapes are made _____

D. Figure out the answers to these questions:

- 1. Draw a net of a cube using six equal squares.
- 2. List all 3D shapes that can be formed using nets made of rectangles.
- 3. Which shapes form the net of a cone and how do they come together.
- 4. If a net has one circle and one triangle can it form a cone Explain.
- 5. Identify which of the following nets will fold into a cube give a reason.

E. Challenge yourself with these questions:

- 1. Draw a net of a cuboid with dimensions 5 cm 3 cm and 2 cm.
- 2. Create a net of a cylinder showing its parts and label them.
- 3. A box is unfolded into a net with 6 rectangles What shape is the box.
- 4. How can you verify if a given net will form a closed 3D shape?
- 5. Compare the nets of a cube and a cuboid What is the difference in their faces.