Net of Solid Figure

A. Choose the correct answer:

1. What is a net of a solid figure

a) A type of cube
b) A 2D pattern that folds into a 3D shape
c) A wireframe
d) A picture

2. Which of the following nets can form a cube

a) Six connected circles
b) Four triangles and two circles
c) Six connected equal squares
d) Three rectangles

3. A net of a cuboid includes

a) All squares
b) All circles
c) All rectangles
d) A mix of squares and rectangles

4. A cylinder's net consists of

a) One circle and one triangle
b) Two rectangles
c) Two circles and one rectangle
d) One square and one rectangle

5. Which 3D figure has a net of one circle and one sector

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

B. Write the Missing Terms to Complete the Sentences:

1. A cube has a net made up of _____ squares.
2. The net of a cuboid has _____ faces.
3. A cone's net is made of one circle and one _____.
4. A cylinder's net contains two _____ and one rectangle.
5. The surface area of a solid figure can be understood by unfolding its _____.

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

1. A net is a flat pattern that can be folded into a solid figure. _____
2. All solid figures have only one possible net. _____

3. The net of a cylinder includes two circular faces. _____
4. A cuboid has six faces in its net. _____
5. A cone has two rectangular faces in its net. _____

D. Figure out the answers to these questions:

1. Identify the 3D figure that can be formed using a net of 6 equal squares.
2. What are the 2D shapes required to make a net of a cylinder?
3. Draw a net of a cone and label its parts.
4. If a net contains two equal circles and one rectangle name the solid shape.
5. Which part of a cube's net helps form the top and bottom faces?

E. Challenge yourself with these questions:

1. Draw and label the net of a cube showing all six square faces.
2. A net includes two circles and a rectangle What 3D object does this represent.
3. Explain how the net of a cone folds to form the shape.
4. What would happen if the net of a cuboid is missing one face?
5. Match different nets with their corresponding 3D shapes and justify your match.