3D shapes quiz

Level: A

1. A 3-D shape can also be called...
   A) A flat shape
   B) A solid shape
   C) A polygon

2. Vertices are also called...
   A) Edges
   B) Corners
   C) Faces
   D) Sides

3. A solid object has six faces which are all squares. What is the name of this object?
   A) Cylinder
   B) Cube
   C) Cuboid

4. The shape of a can of soup is an everyday example of a...
   A) Cylinder
   B) Cube
   C) Cuboid

5. What is the name of this shape?
   A) Cylinder
   B) Cube
   C) Cuboid

6. Which 3-D shape has six rectangular faces?
   A) Sphere
   B) Cuboid
   C) Cylinder
3D shapes quiz

7. What is the name given to a solid object that has a curved surface and two circular ends?
   A) Sphere
   B) Cone
   C) Cylinder

8. Baked beans usually come in what shaped cans?
   A) Square
   B) Cylindrical
   C) Cubed

9. Most dice are the shape of which 3-D shape?
   A) Cuboid
   B) Cylinder
   C) Cube

10. A cupboard usually has the shape of which 3-D shape?
    A) Cuboid
    B) Cylinder
    C) Cube
3D shapes quiz

Level B

1. 3-D shapes are regular when all the faces are equal. Which 3-D shape is regular?
   
   A) Cylinder  
   B) Cube  
   C) Cuboid  

2. A 3-D shape has been opened up to a flat 2-D shape (a net) and is shown below? What was the 3-D shape?

   ![Net of a 3D shape]

   A) Sphere  
   B) Cylinder  
   C) Cone  

3. Which two mathematical shapes could you combine to make this building?

   ![Building image]

   A) Cone and sphere  
   B) Cylinder and sphere  
   C) Cone and cylinder
3D shapes quiz

4. What shape can be the cross section of a cylinder?
   A) Triangle
   B) Hexagon
   C) Circle

5. How many edges does a cylinder have?
   A) Two
   B) Three
   C) Four

6. How many edges does a cube have?
   A) Six
   B) Eight
   C) Twelve

7. How many vertices does a cylinder have?
   A) None
   B) Six
   C) Eight

8. How many vertices does a cube have?
   A) None
   B) Six
   C) Eight
   D) Twelve
3D shapes quiz

9. A solid object has 6 faces, 12 edges and 8 corners. This object could be a...
   A) Cylinder
   B) Cuboid
   C) Cone

10. If there are 9 squares on each face of a Rubik’s Cube, how many squares are there in total?
   A) 15
   B) 27
   C) 45
   D) 54
3D shapes quiz

Level C

1. A perfectly round solid is called a...
   A) Sphere
   B) Cone
   C) Cylinder

2. A 3-D shape with four faces that are all triangles is a...
   A) Triangle
   B) Triangular prism
   C) Triangle-based pyramid
   D) Cone

3. What is the name of the shape of the chocolate in the picture?
   A) Triangle
   B) Triangular prism
   C) Triangle-based pyramid

4. Which of the following 3-D shapes have no vertices or edges?
   A) Hexagonal prisms
   B) Triangular prisms
   C) Cones
   D) Spheres
3D shapes quiz

5. How many faces does a triangular prism have?

A) Four  
B) Five  
C) Six  
D) Eight

6. An octagonal prism is an eight-sided 3-D shape. How many faces does it have?

A) Eight  
B) Ten  
C) Twelve  
D) Sixteen

7. Which of the following shape is a 3-D shape?

A) Octagon  
B) Hexagon  
C) Quadrilateral  
D) Pyramid

8. Which of the following shape is not a 3-D shape?

A) Hexagonal prism  
B) Pentagon  
C) Triangular prism  
D) Cuboid
3D shapes quiz

9. Which of the following shapes has curved surfaces?
   A) Hexagonal prism
   B) Triangular prism
   C) Cuboid
   D) Cone

10. Which of the following shapes does not have any curved surfaces?
   A) Cone
   B) Sphere
   C) Cuboid
   D) Cylinder
3D shapes quiz

Answers

Level A

1. A 3-D shape can also be called...
   The correct answer is: B. A solid shape. The others are 2D

2. Vertices are also called...
   The correct answer is: B. Corners.

3. A solid object has six faces which are all squares. What is the name of this object?
   The correct answer is: B. Cube.

4. The shape of a can of soup is an everyday example of a...
   The correct answer is: A. Cylinder.

5. What is the name of the shape?
   The correct answer is: C. Cuboid.

6. Which 3-D shape has six rectangular faces?
   The correct answer is: B. Cuboid.

7. What is the name given to a solid object that has a curved surface and two circular ends?
   The correct answer is: C. Cylinder.
3D shapes quiz

8. Baked beans usually come in what shaped cans?
   The correct answer is: B. Cylindrical.

9. Most dice are the shape of which 3-D shape?
   The correct answer is: C. Cube.

10. A cupboard usually has the shape of which 3-D shape?
    The correct answer is: A. Cuboid.
3D shapes quiz

Level B

1. 3-D shapes are regular when all the faces are equal. Which 3-D shape is regular?

   The correct answer is: B. Cube.

2. A 3-D shape has been opened up to a flat 2-D shape (a net) and is shown below? What was the 3-D shape?

   The correct answer is: B. Cylinder.

3. Which two mathematical shapes could you combine to make this building?

   The correct answer is: C. Cone and cylinder.
3D shapes quiz

4. What shape can be the cross section of a cylinder?
   The correct answer is: C. Circle.

5. How many edges does a cylinder have?
   The correct answer is: A. Two.

6. How many edges does a cube have?
   The correct answer is: C. Twelve.

7. How many vertices does a cylinder have?
   The correct answer is: A. None.

8. How many vertices does a cube have?
   The correct answer is: C. Eight.

9. A solid object has 6 faces, 12 edges and 8 corners. This object could be a ...
   The correct answer is: B. Cuboid.

10. If there are 9 squares on each face of on a Rubik’s Cube, how many squares are there in total?
    The correct answer is: D. 54. Since a cube has 6 faces, $6 \times 9 = 54$. 

3D shapes quiz

Level C

1. A perfectly round solid is called a...
   The correct answer is: A. Sphere.

2. A 3-D shape with four faces that are all triangles is a...
   The correct answer is: C. Triangle-based pyramid.

3. What is the name of the shape of the chocolate in the picture?
   The correct answer is: B. Triangular prism.

4. Which of the following 3-D shapes have no vertices or edges?
   The correct answer is: D. Spheres.

5. How many faces does a triangular prism have?
   The correct answer is: B. Five.

6. An octagonal prism is an eight-sided 3-D shape. How many faces does it have?
   The correct answer is: B. Ten.

7. Which of the following shape is a 3-D shape?
   The correct answer is: D. Pyramid.
3D shapes quiz

8. Which of the following shapes is not a 3-D shape?
   The correct answer is: B. Pentagon.

9. Which of the following shapes has curved surfaces?
   The correct answer is: D. Cone.

10. Which of the following shapes does not have any curved surfaces?
    The correct answer is: C. Cuboid.