MATHEMATICS · KINDERGARTEN TO GRADE 3

# Recognizing three-dimensional objects

### Difficulty level: Easy

### Mathematics: Kindergarten to Grade 3

This document was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

## *Overview of the concept*

This is how you name the solid shapes around you, like knowing a can is a cylinder, a box is a rectangular prism, and a ball is a sphere. A can rolls because it is round on the side, a box stacks because it is flat on every side, and a ball rolls in every direction because it is round all over. An ice cream cone is a cone, and a tent can be a pyramid, and each shape behaves the way it does because of its shape. Naming solids is how you start talking about the objects in the world around you.



© 2026 Brett Robbins. All Rights Reserved.

## *Rule*

**Three-dimensional objects: name a solid by its faces and whether it rolls. A cube has 6 square faces. A sphere is round all over, has no flat faces, and rolls.**

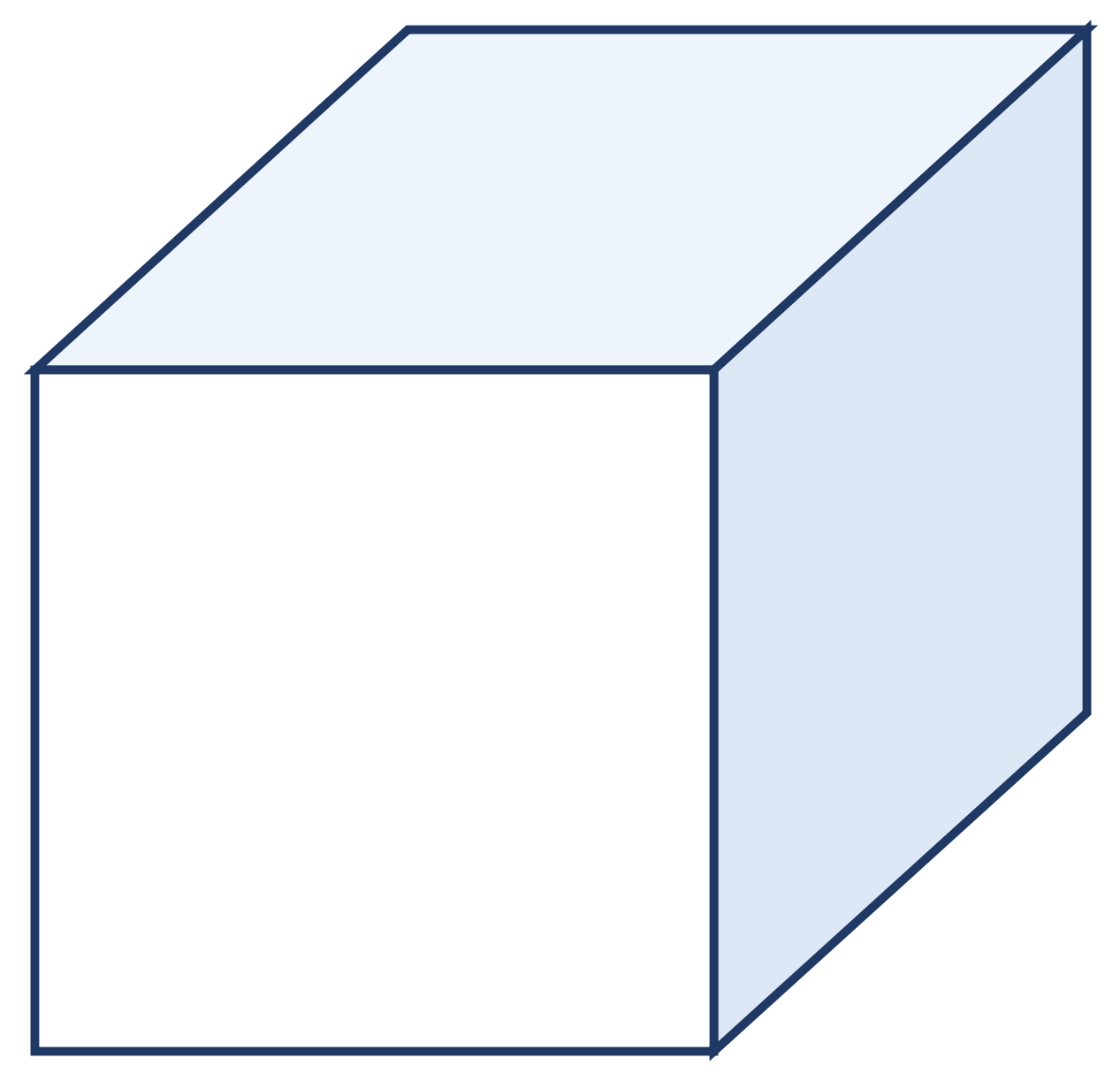
A cylinder has two flat circular faces and a curved side, and rolls on its side. A cone has one circular face and a point. A rectangular prism has flat rectangular faces and stacks. A pyramid has a flat base and triangular faces meeting at a point.

© 2026 Brett Robbins. All Rights Reserved.

## Worked examples

EXAMPLE 1

**Q** Name this solid: 6 square faces



**SOLUTION**

Cube: 6 square faces, 8 corners, 12 edges

Count the faces: 6 faces

Each face is a square.

© 2026 Brett Robbins. All Rights Reserved.

A solid with 6 square faces is a cube.

© 2026 Brett Robbins. All Rights Reserved.

EXAMPLE 2

## Q Name this solid: round, can roll



### SOLUTION

Sphere: round all over, no flat faces, rolls

Look at its surface: it is round all over.

It has no flat faces to stack on.

© 2026 Brett Robbins. All Rights Reserved.

A round solid that rolls is a sphere.

## Practice questions

**1** **A doorstop has two triangle ends and three rectangle sides. What is this solid called?**

- **A** triangular prism
- **B** rectangular prism
- **C** square pyramid
- **D** cylinder

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

**2** A solid has a square base and four triangle faces that meet at a point at the top. What is this solid called?

- **A** pyramid
- **B** prism
- **C** cone
- **D** cube

Understand It with Pulse | Flag a mistake

**3** A tin can has two round ends and a curved side. Which solid is it?

- **A** cylinder
- **B** cone
- **C** sphere
- **D** rectangular prism

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

4 **A party hat has a point at the top and a round base. What do we call this shape?**

A cone

B cylinder

C pyramid

D sphere

Understand It with Pulse | Flag a mistake

5 **How many faces does a cube have? Count the flat faces.**

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

6 **Can a sphere roll? Answer yes or no.**

A Yes

B No

Understand It with Pulse | Flag a mistake

7 **Can a cube roll like a ball? Answer yes or no.**

A No

B Yes

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

**8** A cereal box has 6 faces and each face is a rectangle. Give the name of this solid.

- A rectangular prism
- B triangular prism
- C cube
- D cylinder

Understand It with Pulse | Flag a mistake

**9** How many corners does a triangular prism have? Count the corners.

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

10 How many faces does a square pyramid have? Count the flat faces.

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

## ANSWER KEY

**1.** triangular prism

**2.** pyramid

**3.** cylinder

**4.** cone

**5.** 6

**6.** yes

**7.** no

**8.** rectangular prism

**9.** 6

**10.** 5

© 2026 Brett Robbins. All Rights Reserved.