

# Flat or Solid?

Sort objects by the shapes that model them.

**MA.K.GR.1.4** "Find real-world objects that can be modeled by a given two- or three-dimensional figure. Figures are limited to circles, triangles, rectangles, squares, spheres, cubes, cones and cylinders."

NAME \_\_\_\_\_

DATE \_\_\_\_\_

## FLAT SHAPE

A flat shape is like a circle, triangle, rectangle, or square. It does not have depth.

A round paper cutout is **FLAT**.

## SOLID SHAPE

A solid shape is like a sphere, cube, cone, or cylinder. It has depth and takes up space.

A globe is **SOLID**.

## 1 SORT \_\_\_\_\_ 8 items

Circle **FLAT** or **SOLID** for each item, then pick two items and explain how you knew.

1. 1. circle sticker

FLAT

SOLID

2. 2. soccer ball

FLAT

SOLID

3. 3. soup can

FLAT

SOLID

4. 4. triangle sign

FLAT

SOLID

5. 5. rectangular card

FLAT

SOLID

6. 6. traffic cone

FLAT

SOLID

7. 7. square sticky note

FLAT

SOLID

8. 8. ice cube

FLAT

SOLID

## 2 PROVE IT Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # \_\_\_\_\_ HOW I KNEW \_\_\_\_\_

\_\_\_\_\_

ITEM # \_\_\_\_\_ HOW I KNEW \_\_\_\_\_

\_\_\_\_\_

## 3 MAKE YOUR OWN One of each

Write one real-world thing that is FLAT and one real-world thing that is SOLID.

FLAT \_\_\_\_\_

\_\_\_\_\_

SOLID \_\_\_\_\_

\_\_\_\_\_

### CHALLENGE

Draw a cube-shaped object. Then draw a square on one of its flat faces.

\_\_\_\_\_

\_\_\_\_\_

## PART 1 • SORT

| # | ITEM                  | CATEGORY     | WHY                                                             |
|---|-----------------------|--------------|-----------------------------------------------------------------|
| 1 | 1. circle sticker     | <b>FLAT</b>  | A circle sticker can be modeled by a circle, a flat shape.      |
| 2 | 2. soccer ball        | <b>SOLID</b> | A soccer ball can be modeled by a sphere, a solid shape.        |
| 3 | 3. soup can           | <b>SOLID</b> | A soup can can be modeled by a cylinder, a solid shape.         |
| 4 | 4. triangle sign      | <b>FLAT</b>  | A triangle sign can be modeled by a triangle, a flat shape.     |
| 5 | 5. rectangular card   | <b>FLAT</b>  | A rectangular card can be modeled by a rectangle, a flat shape. |
| 6 | 6. traffic cone       | <b>SOLID</b> | A traffic cone can be modeled by a cone, a solid shape.         |
| 7 | 7. square sticky note | <b>FLAT</b>  | A square sticky note can be modeled by a square, a flat shape.  |
| 8 | 8. ice cube           | <b>SOLID</b> | An ice cube can be modeled by a cube, a solid shape.            |

## PART 2 • PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

## PART 3 • MAKE YOUR OWN (SAMPLE ANSWERS)

- **FLAT:** a square floor tile
- **SOLID:** a birthday hat

**Challenge:** A cube-shaped building block with a square on one flat face.

Answers, in order: FLAT, SOLID, SOLID, FLAT, FLAT, SOLID, FLAT, SOLID. For Part 2, accept explanations that correctly name a matching flat or solid shape.