

Flat or Solid?

Sort shapes by whether they are flat or solid.

2.GSR.7.1 “Describe, compare and sort 2-D shapes including polygons, triangles, quadrilaterals, pentagons, hexagons, and 3-D shapes including rectangular prisms and cones, given a set of attributes.”

NAME _____

DATE _____

FLAT SHAPES

Flat shapes have length and width. They do not have thickness.

a circle

SOLID SHAPES

Solid shapes have length, width, and thickness. They take up space.

a sphere

1 SORT _____ 8 items

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

1. a triangle

FLAT

SOLID

2. a rectangular prism

FLAT

SOLID

3. a pentagon

FLAT

SOLID

4. a hexagon

FLAT

SOLID

5. a cone

FLAT

SOLID

6. a quadrilateral

FLAT

SOLID

7. a cereal box shaped like a rectangular prism

FLAT

SOLID

8. a rectangle

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 new FLAT example and one new SOLID example.

FLAT _____

SOLID _____

CHALLENGE

Choose one FLAT item and one SOLID item from Part 1. Tell one way they are alike and one way they are different.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	a triangle	FLAT	A triangle is a flat 2-D shape.
2	a rectangular prism	SOLID	A rectangular prism is a solid 3-D shape.
3	a pentagon	FLAT	A pentagon is a flat 2-D shape.
4	a hexagon	FLAT	A hexagon is a flat 2-D shape.
5	a cone	SOLID	A cone is a solid 3-D shape.
6	a quadrilateral	FLAT	A quadrilateral is a flat 2-D shape.
7	a cereal box shaped like a rectangular prism	SOLID	A cereal box has thickness and takes up space.
8	a rectangle	FLAT	A rectangle is a flat 2-D 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
- **SOLID:** a sphere

Challenge: A pentagon and a cone are alike because both are shapes. They are different because a pentagon is flat, and a cone is solid.

For Part 2, accept explanations that name flat shapes as having no thickness or solid shapes as taking up space. Part 3 answers may include any correct flat shape and any correct solid shape.