Flat or Solid

Use dimensions to sort every figure.

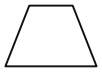
MA.5.GR.1 "Classify two-dimensional figures and three-dimensional figures based on defining attributes."

NAME _____ DATE _____

FLAT FIGURE

A flat figure has length and width. It does not have thickness.

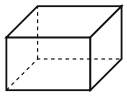
A trapezoid is flat.



SOLID FIGURE

A solid figure has length, width, and height. It takes up space.

A rectangular prism is solid.



1 SORT

8 items

Circle FLAT or SOLID for each figure, then choose two figures and explain how you know.

1.

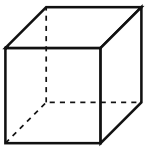


Figure 1

FLAT SOLID

2.

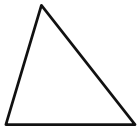


Figure 2

FLAT SOLID

3.

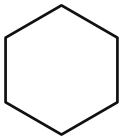


Figure 3

FLAT SOLID

4.

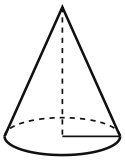


Figure 4

FLAT SOLID

5.

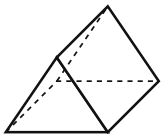


Figure 5

FLAT SOLID

6.

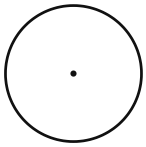


Figure 6

FLAT SOLID

7.

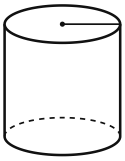


Figure 7

FLAT SOLID

8.

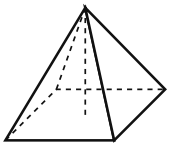


Figure 8

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 example of a FLAT figure and one new example of a SOLID figure.

FLAT _____

SOLID _____

CHALLENGE

Draw one FLAT figure with a curved edge and one SOLID figure with a curved surface. Label both figures.

ANSWER KEY

Flat or Solid

GRADE 5 · MA.5.GR.1

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (cube)	**SOLID**	A cube has length, width, and height.
2	Figure 2 (triangle)	**FLAT**	A triangle is a two-dimensional figure.
3	Figure 3 (hexagon)	**FLAT**	A hexagon is a two-dimensional figure.
4	Figure 4 (cone)	**SOLID**	A cone has length, width, and height.
5	Figure 5 (triangular_prism)	**SOLID**	A triangular prism has length, width, and height.
6	Figure 6 (circle)	**FLAT**	A circle is a two-dimensional figure.
7	Figure 7 (cylinder)	**SOLID**	A cylinder has length, width, and height.
8	Figure 8 (pyramid)	**SOLID**	A pyramid has length, width, and height.

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**: octagon
- **SOLID**: hemisphere

Challenge: A semicircle labeled FLAT and a sphere labeled SOLID.

For Part 2, accept explanations that identify two dimensions for a flat figure or three dimensions for a solid figure. Curved edges or surfaces do not alone determine whether a figure is flat or solid.