

Shape Spotters

Find polygon names in everyday places.

GRADE 3 • 3.MG.4.d

3.MG.4.d "Identify and name examples of polygons (triangles, quadrilaterals, pentagons, hexagons, octagons) in the environment."

NAME _____

DATE _____

COUNT THE SIDES

A polygon is a closed shape made only of straight sides. Count the sides, then use the side count to choose the polygon's name. Curved sides or an open gap mean the shape is not a polygon.

WORKED EXAMPLE

A prize medal has 7 straight sides and is closed. What is its name?

1. Check that the shape is closed.
2. Check that all 7 sides are straight.
3. A closed shape with 7 straight sides is a heptagon.

Answer: heptagon

PRACTICE 6 problems

- 1** A toy boat sail has 3 straight sides and is closed. Name the polygon.

ANSWER _____

- 2** A picture frame has 4 straight sides and is closed. Name the polygon.

ANSWER _____

- 3** A museum display label has 5 straight sides and is closed. Name the polygon.

ANSWER _____

- 4** A honeycomb cell has 6 straight sides and is closed. Name the polygon.

ANSWER _____

- 5** A stop sign has 8 straight sides and is closed. Name the polygon.

ANSWER _____

- 6** A classroom window outline has 4 straight sides and is closed. Name the polygon.

ANSWER _____

APPLY IT Show your work

- 1** At the school art show, Maya sees a pennant with 3 straight sides and a robot sticker with 6 straight sides. Both shapes are closed. Name both polygons.

WORK SPACE

ANSWER _____

- 2** During a neighborhood scavenger hunt, Eli finds a garden stepping stone with 5 straight sides and a stop sign with 8 straight sides. Both shapes are closed. Name both polygons.

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A playground game board has three outlines. Outline A has 4 straight sides and is closed. Outline B has 6 sides, but one side is curved. Outline C has 8 straight sides, but there is a gap between two ends. Which outline is a polygon? Name it. Explain why B and C are not polygons.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	A toy boat sail has 3 straight sides and is closed. Name the polygon.	triangle
2	A picture frame has 4 straight sides and is closed. Name the polygon.	quadrilateral
3	A museum display label has 5 straight sides and is closed. Name the polygon.	pentagon
4	A honeycomb cell has 6 straight sides and is closed. Name the polygon.	hexagon
5	A stop sign has 8 straight sides and is closed. Name the polygon.	octagon
6	A classroom window outline has 4 straight sides and is closed. Name the polygon.	quadrilateral

PART 2 • APPLY IT

1. **The pennant is a triangle. The robot sticker is a hexagon.** Match 3 straight, closed sides to triangle. Match 6 straight, closed sides to hexagon.
2. **The stepping stone is a pentagon. The stop sign is an octagon.** Match 5 straight, closed sides to pentagon. Match 8 straight, closed sides to octagon.

CHALLENGE

Outline A is a quadrilateral. Outline B is not a polygon because it has a curved side. Outline C is not a polygon because it is not closed.

Accept standard polygon names with any capitalization. For the challenge, require that students identify A as a quadrilateral and explain that polygons must be closed and have only straight sides.