Right Angle Hunt

Sort figures by their corners

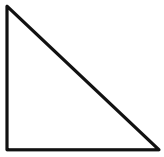
4.G.2 "Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Categorize triangles by sides and angles (equilateral, isosceles, right…"

NAME _____ DATE _____

HAS A RIGHT ANGLE

A right angle measures 90°. A figure belongs here if at least one of its corners is a right angle.

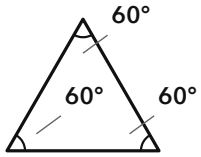
This triangle has a right angle.



NO RIGHT ANGLES

A figure belongs here if none of its corners measures 90°.

Each corner of this triangle measures 60°.



1 SORT

8 items

For Part 1, circle RIGHT or ZERO for each figure; for Part 2, choose one figure from each group and explain how you know where it belongs.

1.

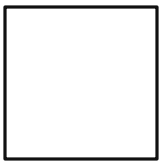


Figure 1

RIGHT ZERO

2.



Figure 2

RIGHT ZERO

3.

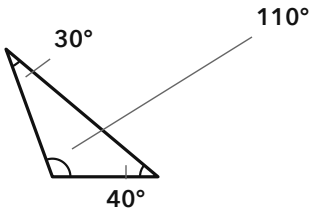


Figure 3

RIGHT ZERO

4.

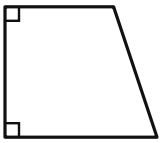


Figure 4

RIGHT ZERO

5.

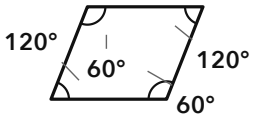


Figure 5

RIGHT ZERO

6.

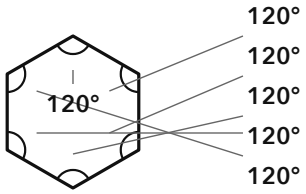


Figure 6

RIGHT ZERO

7.

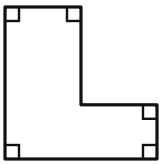


Figure 7

RIGHT ZERO

8.

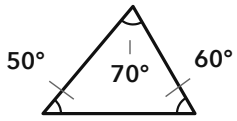


Figure 8

RIGHT ZERO

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

For Part 3, draw one new figure with a right angle and one new figure with no right angles; mark or label an angle in each to show why it belongs.

RIGHT

ZERO

CHALLENGE

Draw a four-sided figure with exactly two right angles, then explain which category it belongs in.

ANSWER KEY

Right Angle Hunt

GRADE 4 · 4.G.2

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (square)	**RIGHT**	All four angles are right angles.
2	Figure 2 (rectangle)	**RIGHT**	All four angles are right angles.
3	Figure 3 (obtuse_triangle)	**ZERO**	None of its angles measures 90°.
4	Figure 4 (polygon)	**RIGHT**	The angles at vertices 0 and 3 are right angles.
5	Figure 5 (parallelogram)	**ZERO**	Its labeled angles are 60° and 120°, not 90°.
6	Figure 6 (hexagon)	**ZERO**	Each labeled angle measures 120°.
7	Figure 7 (polygon)	**RIGHT**	Five corners are right angles. The inward corner is not.
8	Figure 8 (triangle)	**ZERO**	None of its labeled angles measures 90°.

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)

- **RIGHT**: A five-sided figure with one angle marked 90°.
- **ZERO**: A regular five-sided figure with one angle labeled 108°.

Challenge: A trapezoid with angles of 90°, 90°, 120°, and 60°. It belongs in RIGHT because two of its angles measure 90°.

Part 2 sample: Figure 3 belongs in ZERO because its angles are 110°, 40°, and 30°. Figure 4 belongs in RIGHT because it has two 90° angles.