Square Corner Sort

Sort figures by whether they have a right angle.

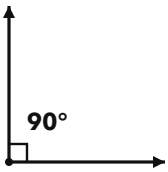
4.6.D "classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size."

NAME _____ DATE _____

HAS A RIGHT ANGLE

A right angle makes a square corner. It measures 90°.

A 90° angle



HAS NO RIGHT ANGLES

These figures do not have a square corner. None of their angles measure 90°.

A 120° angle



1 SORT

8 items

For Part 1, circle the category for each figure, then for Part 2, choose two figures and explain how you knew where each one belongs.

1.

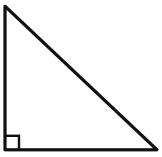


Figure 1

HAS RIGHT NO RIGHT

2.

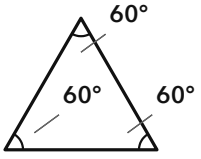


Figure 2

HAS RIGHT NO RIGHT

3.

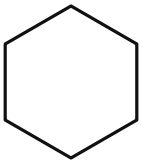


Figure 3

HAS RIGHT **NO RIGHT**

4.



Figure 4

HAS RIGHT **NO RIGHT**

5.

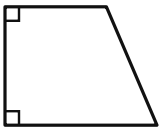


Figure 5

HAS RIGHT **NO RIGHT**

6.

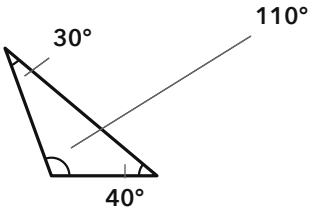


Figure 6

HAS RIGHT **NO RIGHT**

7.

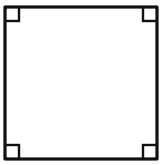


Figure 7

HAS RIGHT **NO RIGHT**

8.

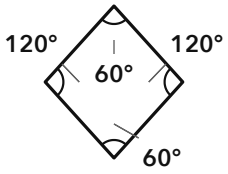


Figure 8

HAS RIGHT **NO RIGHT**

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

Part 3: Write one new example that has a right angle and one new example that has no right angles.

HAS RIGHT _____

NO RIGHT _____

CHALLENGE

Draw a quadrilateral that has exactly one right angle. Mark the right angle.

ANSWER KEY

Square Corner Sort

GRADE 4 · TEKS 4.6.D

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (right_triangle)	**HAS RIGHT**	The triangle has one marked square corner, or right angle.
2	Figure 2 (equilateral)	**NO RIGHT**	All three angles measure 60°, not 90°.
3	Figure 3 (hexagon)	**NO RIGHT**	A regular hexagon has angles of 120°, so it has no right angles.
4	Figure 4 (rectangle)	**HAS RIGHT**	A rectangle has four right angles.
5	Figure 5 (right_trapezoid)	**HAS RIGHT**	The trapezoid has two right angles.
6	Figure 6 (obtuse_triangle)	**NO RIGHT**	Its angles are 110°, 40°, and 30°, so none is 90°.
7	Figure 7 (square)	**HAS RIGHT**	A square has four right angles.
8	Figure 8 (rhombus)	**NO RIGHT**	Its angles are 60° and 120°, not 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)

- **HAS RIGHT**: Has a right angle: A pentagon with one 90° angle.
- **NO RIGHT**: Has no right angles: A triangle with angles of 70°, 50°, and 60°.

Challenge: A quadrilateral with angles of 90°, 80°, 110°, and 80°, with the 90° angle marked.

Accept any correct explanations in Part 2 that identify a 90° square corner or show that no angle is 90°. For Part 3, accept different valid examples that match each category.