

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."

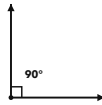
NAME _____

DATE _____

HAS A RIGHT ANGLE

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

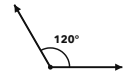
A 90° angle



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.

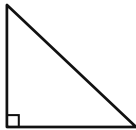


Figure 1

HAS
RIGHTNO
RIGHT

2.

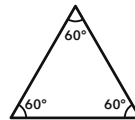


Figure 2

HAS
RIGHTNO
RIGHT

3.

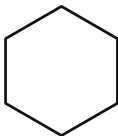


Figure 3

HAS
RIGHTNO
RIGHT

4.



Figure 4

HAS
RIGHTNO
RIGHT

5.

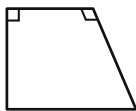


Figure 5

HAS
RIGHTNO
RIGHT

6.

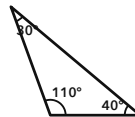


Figure 6

HAS
RIGHTNO
RIGHT

7.

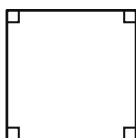


Figure 7

HAS
RIGHTNO
RIGHT

8.

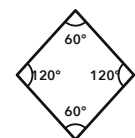


Figure 8

HAS
RIGHTNO
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.

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.