

Square Corner Search

Use corners to find a figure's structure.

CCSS.Math.Practice.MP7 "Look for and make use of structure. Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more..."

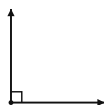
NAME _____

DATE _____

HAS A RIGHT ANGLE

This figure has at least one square corner. A square corner is a right angle.

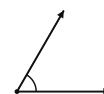
Example



HAS NO RIGHT ANGLES

This figure has no square corners. None of its angles are right angles.

Example



1 SORT _____ 8 items

Look closely at each figure and circle HAS RIGHT or NO RIGHT.

1.

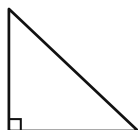


Figure 1

HAS
RIGHTNO
RIGHT

2.



Figure 2

HAS
RIGHTNO
RIGHT

3.



Figure 3

HAS
RIGHTNO
RIGHT

4.

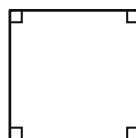


Figure 4

HAS
RIGHTNO
RIGHT

5.

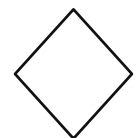


Figure 5

HAS
RIGHTNO
RIGHT

6.

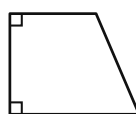


Figure 6

HAS
RIGHTNO
RIGHT

7.

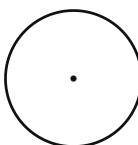


Figure 7

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

PROVE IT: Choose two figures and explain how their corners helped you sort them. MAKE YOUR OWN: Draw one new figure for HAS RIGHT and one new figure for NO RIGHT.

HAS RIGHT _____

NO RIGHT _____

CHALLENGE

Draw a figure with exactly two right angles, then explain how you know it has exactly two.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (right_triangle)	HAS RIGHT	It has one marked square corner.
2	Figure 2 (obtuse_triangle)	NO RIGHT	Its angles are not square corners.
3	Figure 3 (equilateral)	NO RIGHT	An equilateral triangle has no right angles.
4	Figure 4 (square)	HAS RIGHT	All four corners are right angles.
5	Figure 5 (rhombus)	NO RIGHT	Its slanted corners are not right angles.
6	Figure 6 (right_trapezoid)	HAS RIGHT	It has two marked square corners.
7	Figure 7 (circle)	NO RIGHT	A circle has no corners.
8	Figure 8 (rectangle)	HAS RIGHT	All four corners are right angles.

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:** A pentagon with one marked square corner.
- **NO RIGHT:** An oval with no corners.

Challenge: A trapezoid with two square corners on the left. The other two corners are slanted, so it has exactly two right angles.

Accept any correct explanation that identifies square corners or the lack of square corners. For the challenge, a right trapezoid with exactly two marked right angles is a valid drawing.