Corner Detectives

Sort angles by the size of their openings.

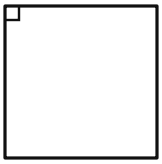
4.GM.1.1 "Identify points, lines, line segments, rays, angles, endpoints, and parallel and perpendicular lines in various models."

NAME _____ DATE _____

RIGHT ANGLE

A right angle makes a square corner.

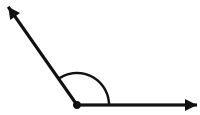
Look at the marked corner of this square.



NOT RIGHT ANGLE

An angle that is not right opens less or more than a square corner.

This angle opens more than a square corner.



1 SORT

8 items

For Part 1 SORT, circle Right Angle or Not Right Angle for each figure, and for Part 2 PROVE IT, pick two figures and explain how you knew.

1.

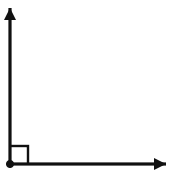


Figure 1

RIGHT OTHER

2.

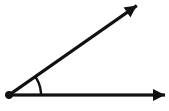


Figure 2

RIGHT OTHER

3.

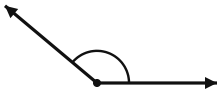


Figure 3

RIGHT OTHER

4.

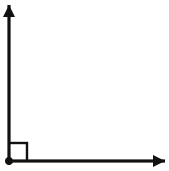


Figure 4

RIGHT OTHER

5.

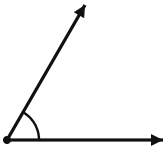


Figure 5

RIGHT OTHER

6.

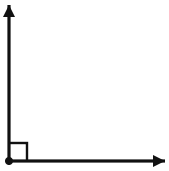


Figure 6

RIGHT OTHER

7.

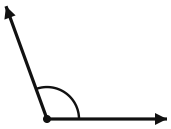


Figure 7

RIGHT OTHER

8.



Figure 8

RIGHT OTHER

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 MAKE YOUR OWN, write one new example of a right angle and one new example of an angle that is not right.

RIGHT

OTHER

CHALLENGE

Choose two Not Right Angle figures, one that opens less than a right angle and one that opens more, and tell which is which.

ANSWER KEY

Corner Detectives

GRADE 4 · 4.GM.1.1

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (angle 90°)	**RIGHT**	Its opening is a square corner.
2	Figure 2 (angle 35°)	**OTHER**	Its opening is smaller than a square corner.
3	Figure 3 (angle 140°)	**OTHER**	Its opening is larger than a square corner.
4	Figure 4 (angle 90°)	**RIGHT**	Its opening is a square corner.
5	Figure 5 (angle 60°)	**OTHER**	Its opening is smaller than a square corner.
6	Figure 6 (angle 90°)	**RIGHT**	Its opening is a square corner.
7	Figure 7 (angle 110°)	**OTHER**	Its opening is larger than a square corner.
8	Figure 8 (angle 155°)	**OTHER**	Its opening is larger than a square corner.

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 corner of a rectangular window.
- **OTHER**: An angle that measures 45°.

Challenge: Figure 2 opens less than a right angle. Figure 3 opens more than a right angle.

For Part 2, explanations should compare each chosen opening with a square corner. Accept any clear examples for Part 3 that fit the two categories.