Square Corner Sort

Use a square corner test to sort angles.

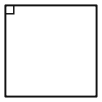
5.MG.3.a "Classify angles as right, acute, obtuse, or straight and justify reasoning."

NAME _____ DATE _____

RIGHT ANGLE

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

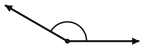
The corner of a picture frame is a right angle.



NOT A RIGHT ANGLE

An angle that is smaller or larger than a square corner is not right. A straight angle is not right either.

This 150° opening is not a right angle.



1 SORT

8 items

Circle RIGHT or NOT RIGHT for each figure, then choose two figures and explain how you knew.

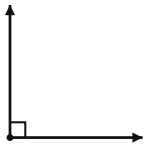
1. 

Figure 1

RIGHT NOT RIGHT

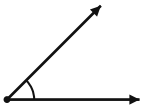
2. 

Figure 2

RIGHT NOT RIGHT

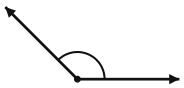
3. 

Figure 3

RIGHT NOT RIGHT

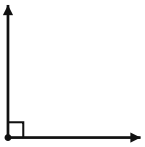
4. 

Figure 4

RIGHT NOT RIGHT

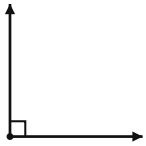
5. 

Figure 5

RIGHT NOT RIGHT

6. 

Figure 6

RIGHT NOT RIGHT

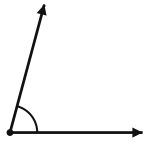
7. 

Figure 7

RIGHT NOT RIGHT

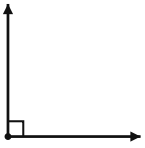
8. 

Figure 8

RIGHT NOT 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

Draw one right angle and one angle that is not right. Label each drawing RIGHT or NOT RIGHT.

RIGHT

NOT RIGHT

CHALLENGE

Draw and label an acute angle, an obtuse angle, and a straight angle. Explain why all three belong in NOT RIGHT.

ANSWER KEY

Square Corner Sort

GRADE 5 · 5.MG.3.a

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (angle 90°)	**RIGHT**	The angle measures 90°, so it makes a square corner.
2	Figure 2 (angle 45°)	**NOT RIGHT**	The angle is smaller than a square corner.
3	Figure 3 (angle 135°)	**NOT RIGHT**	The angle is larger than a square corner.
4	Figure 4 (angle 90°)	**RIGHT**	The angle measures 90°, so it makes a square corner.
5	Figure 5 (angle 90°)	**RIGHT**	The angle measures 90°, so it makes a square corner.
6	Figure 6 (angle 180°)	**NOT RIGHT**	This is a straight angle, not a 90° angle.
7	Figure 7 (angle 75°)	**NOT RIGHT**	The angle is smaller than a square corner.
8	Figure 8 (angle 90°)	**RIGHT**	The angle measures 90°, so it makes 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 90° angle labeled RIGHT.
- **NOT RIGHT**: A 120° angle labeled NOT RIGHT.

Challenge: A 50° acute angle, a 140° obtuse angle, and a 180° straight angle, each labeled NOT RIGHT. None measures 90°, so none is a right angle.

Items 1, 4, 5, and 8 are RIGHT. Items 2, 3, 6, and 7 are NOT RIGHT. For Part 2, accept reasoning that compares the angle with a square corner or explains that a right angle measures 90°.