Angle Snap Sort

Look at each angle and sort it by its size.

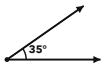
4.GSR.7.1 "Recognize angles as geometric shapes formed when two rays share a common endpoint. Draw right, acute, and obtuse angles based on the relationship of the angle measure to 90 degrees."

NAME _____ DATE _____

ACUTE ANGLE

An acute angle is made by two rays with one shared endpoint. It measures less than 90°.

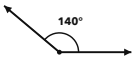
An angle that measures 35°.



OBTUSE ANGLE

An obtuse angle is made by two rays with one shared endpoint. It measures more than 90° and less than 180°.

An angle that measures 140°.



1 SORT

8 items

Circle ACUTE or OBTUSE for each figure, then choose two figures and explain how you knew their categories.

1.

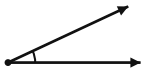


Figure 1

ACUTE OBTUSE

2.

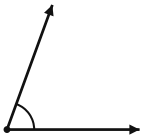


Figure 2

ACUTE OBTUSE

3.



Figure 3

ACUTE OBTUSE

4.

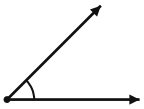


Figure 4

ACUTE OBTUSE

5.

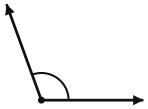


Figure 5

ACUTE OBTUSE

6.

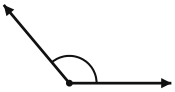


Figure 6

ACUTE OBTUSE

7.

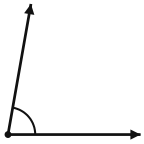


Figure 7

ACUTE OBTUSE

8.

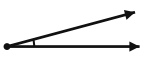


Figure 8

ACUTE OBTUSE

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 and label one new acute angle and one new obtuse angle.

ACUTE

OBTUSE

CHALLENGE

Draw a right angle and label its measure.

ANSWER KEY # Angle Snap Sort

GRADE 4 · 4.GSR.7.1

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (angle 25°)	**ACUTE**	The angle is less than 90°.
2	Figure 2 (angle 70°)	**ACUTE**	The angle is less than 90°.
3	Figure 3 (angle 155°)	**OBTUSE**	The angle is greater than 90° and less than 180°.
4	Figure 4 (angle 45°)	**ACUTE**	The angle is less than 90°.
5	Figure 5 (angle 110°)	**OBTUSE**	The angle is greater than 90° and less than 180°.
6	Figure 6 (angle 130°)	**OBTUSE**	The angle is greater than 90° and less than 180°.
7	Figure 7 (angle 80°)	**ACUTE**	The angle is less than 90°.
8	Figure 8 (angle 15°)	**ACUTE**	The angle is less than 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)

- **ACUTE**: An acute angle labeled 75°.
- **OBTUSE**: An obtuse angle labeled 125°.

Challenge: A right angle labeled 90°.

For Part 2, accept explanations that compare each chosen angle to 90°. Student drawings may vary as long as the acute angle is less than 90°, the obtuse angle is between 90° and 180°, and the right angle measures 90°.