Angle Checkpoint

Measure each angle, then sort it by its size.

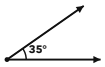
5.MG.3.f "Measure right, acute, obtuse, and straight angles, using appropriate tools, and identify measures in degrees."

NAME _____ DATE _____

ACUTE ANGLE

An acute angle measures more than 0° and less than 90°. Measure from one ray to the other with a protractor.

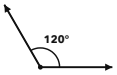
This angle measures 35°.



NOT ACUTE

A right angle measures 90°, an obtuse angle is greater than 90° but less than 180°, and a straight angle measures 180°. None of these angles is acute.

This angle measures 120°.



1 SORT

8 items

For Part 1, measure each figure with a protractor and circle its category, then for Part 2, choose two figures and explain what each measurement tells you.

1.

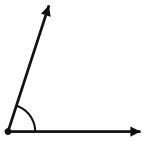


Figure 1

ACUTE | NOT ACUTE

2.

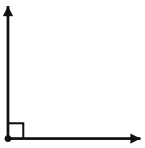


Figure 2

ACUTE | NOT ACUTE

3.

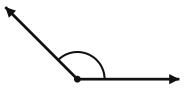


Figure 3

ACUTE | NOT ACUTE

4.

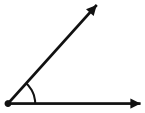


Figure 4

ACUTE | NOT ACUTE

5.

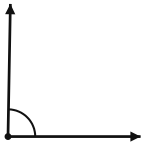


Figure 5

ACUTE | NOT ACUTE

6.



Figure 6

ACUTE | NOT ACUTE

7.

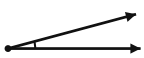


Figure 7

ACUTE | NOT ACUTE

8.

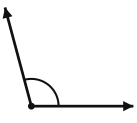


Figure 8

ACUTE | NOT ACUTE

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, write one new angle measure for each category: ACUTE and NOT ACUTE.

ACUTE _____

NOT ACUTE _____

CHALLENGE

Draw an angle that is NOT ACUTE and measures between 100° and 140°, then label its measure.

ANSWER KEY # Angle Checkpoint

GRADE 5 · 5.MG.3.f

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (angle 72°)	**ACUTE**	72° is less than 90°.
2	Figure 2 (angle 90°)	**NOT ACUTE**	90° is a right angle.
3	Figure 3 (angle 135°)	**NOT ACUTE**	135° is obtuse.
4	Figure 4 (angle 48°)	**ACUTE**	48° is less than 90°.
5	Figure 5 (angle 89°)	**ACUTE**	89° is less than 90°.
6	Figure 6 (angle 180°)	**NOT ACUTE**	180° is a straight angle.
7	Figure 7 (angle 15°)	**ACUTE**	15° is less than 90°.
8	Figure 8 (angle 105°)	**NOT ACUTE**	105° is obtuse.

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**: A 64° angle.
- **NOT ACUTE**: A 150° angle.

Challenge: A 128° obtuse angle, labeled 128°.

Accept measurements that are within 2° if students measure the printed figures accurately. In Part 2, students should state a measured degree value and compare it with 90°.