

Turn Size Sort

Measure each turn in degrees.

NY-4.MD.5.b "Recognize an angle that turns through n one-degree angles is said to have an angle measure of n degrees."

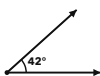
NAME _____

DATE _____

SMALL TURN

A small turn measures fewer than 90 one-degree turns. Its angle measure is less than 90° .

An angle marked 42° is a small turn.



LARGE TURN

A large turn measures 90 or more one-degree turns. Its angle measure is 90° or greater.

An angle marked 137° is a large turn.



1 SORT _____ 8 items

For Part 1, circle SMALL or LARGE for each figure, then for Part 2, choose two items, one from each group, and explain how the degree marks helped you sort them.

1.

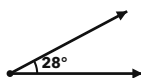


Figure 1

SMALL

LARGE

2.

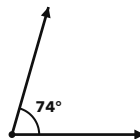


Figure 2

SMALL

LARGE

3.

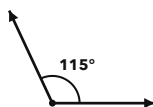


Figure 3

SMALL

LARGE

4.

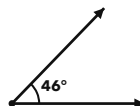


Figure 4

SMALL

LARGE

5.



Figure 5

SMALL

LARGE

6.

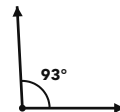


Figure 6

SMALL

LARGE

7.

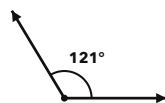


Figure 7

SMALL

LARGE

8.

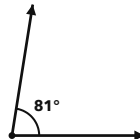


Figure 8

SMALL

LARGE

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, draw and label one new SMALL angle and one new LARGE angle.

SMALL _____

LARGE _____

CHALLENGE

Draw an angle that measures 68° , then draw a second angle that is 30° larger. Sort both angles as SMALL or LARGE.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (angle 28°)	SMALL	28° is less than 90° .
2	Figure 2 (angle 74°)	SMALL	74° is less than 90° .
3	Figure 3 (angle 115°)	LARGE	115° is greater than 90° .
4	Figure 4 (angle 46°)	SMALL	46° is less than 90° .
5	Figure 5 (angle 170°)	LARGE	170° is greater than 90° .
6	Figure 6 (angle 93°)	LARGE	93° is greater than 90° .
7	Figure 7 (angle 121°)	LARGE	121° is greater than 90° .
8	Figure 8 (angle 81°)	SMALL	81° 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)

- **SMALL:** A 35° angle is a SMALL angle.
- **LARGE:** A 120° angle is a LARGE angle.

Challenge: The first angle is 68° and is SMALL. The second angle is 98° and is LARGE.

SMALL: 1, 2, 4, 8. LARGE: 3, 5, 6, 7. For Part 2, accept explanations that compare each shown degree measure with 90° .