Spot the Angle

Sort figures by what you see.

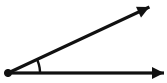
4.M.B.24 "Identify an angle as a geometric shape formed wherever two rays share a common endpoint."

NAME _____ DATE _____

ANGLE

An angle is formed by two rays that start at the same point. The point where they start is the vertex.

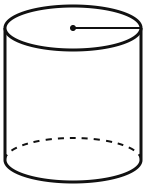
These two rays form an angle.



NOT AN ANGLE

A figure is not an angle if it does not show two rays starting at the same point.

This figure does not show two rays starting at one point.



1 SORT

8 items

For Part 1, circle ANGLE or OTHER for each figure; for Part 2, choose two figures and explain how you knew where each belongs.

1.

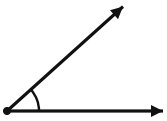


Figure 1

ANGLE OTHER

2.

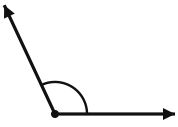


Figure 2

ANGLE OTHER

3.

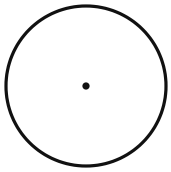


Figure 3

ANGLE **OTHER**

4.

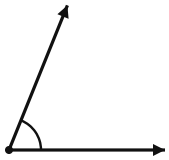


Figure 4

ANGLE **OTHER**

5.

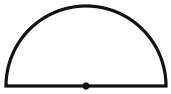


Figure 5

ANGLE **OTHER**

6.

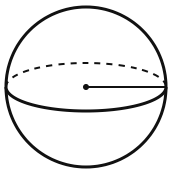


Figure 6

ANGLE **OTHER**

7.

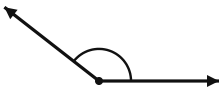


Figure 7

ANGLE **OTHER**

8.

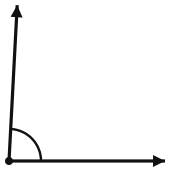


Figure 8

ANGLE **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, write one new example of an ANGLE and one new example of OTHER. Describe what you would draw.

ANGLE _____

OTHER _____

CHALLENGE

Imagine three rays starting at point Q and pointing in three different directions. How many pairs of rays form an angle? Explain.

ANSWER KEY # Spot the Angle

GRADE 4 · 4.M.B.24

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1 (angle 42°)	**ANGLE**	Two rays share a starting point.
2	Figure 2 (angle 115°)	**ANGLE**	Two rays share a starting point.
3	Figure 3 (circle)	**OTHER**	A circle has no rays.
4	Figure 4 (angle 68°)	**ANGLE**	Two rays share a starting point.
5	Figure 5 (semicircle)	**OTHER**	A semicircle does not show two rays.
6	Figure 6 (sphere)	**OTHER**	A sphere does not show two rays.
7	Figure 7 (angle 142°)	**ANGLE**	Two rays share a starting point.
8	Figure 8 (angle 87°)	**ANGLE**	Two rays share a starting point.

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)

- **ANGLE**: Two rays begin at point R. One points left, and the other points down.
- **OTHER**: An oval made from one curved line.

Challenge: Three pairs form angles. Each ray can pair with either of the other two rays, making three different pairs in all.

For Part 2, accept any two correctly identified figures with explanations based on whether two rays share a starting point.