

Around or Not

Sort actions that find the distance around a shape.

3.GSR.8.1 "Determine the perimeter of a polygon and explain that the perimeter represents the distance around a polygon. Solve problems involving perimeters of polygons."

NAME _____

DATE _____

DISTANCE AROUND

Choose AROUND when every outside side of a polygon is used. This distance is called perimeter.

A jeweler wraps wire around a diamond-shaped pendant. The wire length is the perimeter.

NOT DISTANCE AROUND

Choose NOT when the action finds space inside, one side, corners, or something else. It is not finding the distance around.

A painter finds how much paint covers a trapezoid-shaped wall. This is not perimeter.

1 SORT _____ 8 items

Circle AROUND or NOT for each item, then choose two items and explain how you knew.

- | | | |
|---|------------------------------|---------------------------|
| 1. String outlines every edge of a pentagon card. | ☐ AROUND | ☐ NOT |
| 2. A caterpillar travels around the outside of a six-sided shape. | ☐ AROUND | ☐ NOT |
| 3. A builder measures one side of a shed wall. | ☐ AROUND | ☐ NOT |
| 4. A border goes around a rectangular bulletin board. | ☐ AROUND | ☐ NOT |
| 5. Sam finds how many square units fit inside a rectangle. | ☐ AROUND | ☐ NOT |
| 6. Priya counts the vertices of an octagon. | ☐ AROUND | ☐ NOT |
| 7. Tape follows all sides of a triangular flag. | ☐ AROUND | ☐ NOT |
| 8. A florist finds the space inside a flowerbed. | ☐ AROUND | ☐ NOT |

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

Write one new AROUND example and one new NOT example.

AROUND _____

NOT _____

CHALLENGE

A rectangle is 8 units long and 5 units wide. Find its perimeter and tell what your answer measures.

PART 1 • SORT

#	ITEM	CATEGORY	WHY
1	String outlines every edge of a pentagon card.	AROUND	The string goes along all outside sides.
2	A caterpillar travels around the outside of a six-sided shape.	AROUND	The caterpillar travels the distance around the shape.
3	A builder measures one side of a shed wall.	NOT	Only one side is measured, not all sides.
4	A border goes around a rectangular bulletin board.	AROUND	The border follows all outside sides.
5	Sam finds how many square units fit inside a rectangle.	NOT	This finds the space inside the shape.
6	Priya counts the vertices of an octagon.	NOT	Counting corners does not measure distance around.
7	Tape follows all sides of a triangular flag.	AROUND	The tape goes along every side of the shape.
8	A florist finds the space inside a flowerbed.	NOT	This finds space inside, not distance around.

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)

- **AROUND:** I measure all four sides of a square tablecloth to find its perimeter.
- **NOT:** I count the sides of a triangle. I am not finding perimeter.

Challenge: 26 units. It measures the distance around the rectangle.

For Part 2, students should explain that AROUND uses every outside side and NOT does not. Accept different correct Part 3 examples that clearly fit each category.