Name It Right

Sort correct and incorrect segment and angle names.

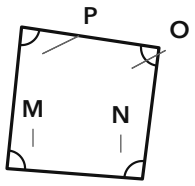
4.MG.5.f "Use symbolic notation to name line segments and angles in quadrilaterals."

NAME _____ DATE _____

CORRECT NOTATION

A line segment has two endpoint letters, like $\overline{MN}$. An angle has three letters, and the vertex is the middle letter, like ∠MNO.

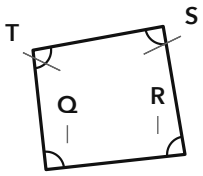
∠MNO



INCORRECT NOTATION

An incorrect name may have too many or too few letters. For an angle, the middle letter must name the vertex.

∠QR



1 SORT

8 items

Circle CORRECT or INCORRECT for each figure, then choose two items and explain how the letters and symbols helped you decide.

1.

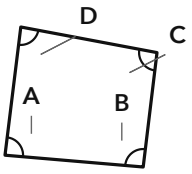


Figure 1: $\overline{AB}$

CORRECT **INCORRECT**

2.

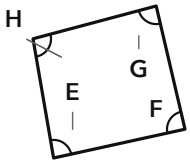


Figure 2: ∠FGH

CORRECT **INCORRECT**

3.

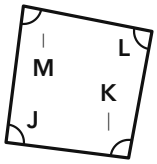


Figure 3: $\overline{JKL}$

CORRECT **INCORRECT**

4.

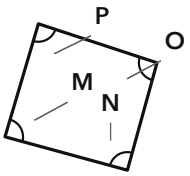


Figure 4: ∠NOP

CORRECT **INCORRECT**

5.

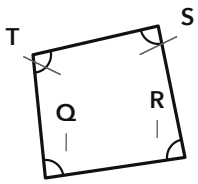


Figure 5: ∠RS

CORRECT **INCORRECT**

6.

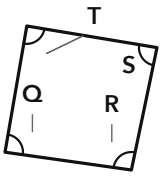


Figure 6: $\overline{QRST}$

CORRECT **INCORRECT**

7.

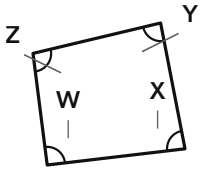


Figure 7: ∠WXY

CORRECT **INCORRECT**

8.

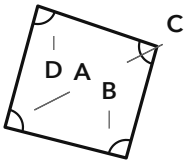


Figure 8: $\overline{CD}$

CORRECT **INCORRECT**

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

Label a quadrilateral with four letters, then write one new CORRECT notation example and one new INCORRECT notation example.

CORRECT _____

INCORRECT _____

CHALLENGE

Draw quadrilateral ABCD. Write notation for diagonal AC and for the angle with vertex D.

ANSWER KEY # Name It Right

GRADE 4 · 4.MG.5.f

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	Figure 1: $\overline{AB}$ (polygon)	**CORRECT**	A line segment is named with its two endpoints, A and B.
2	Figure 2: ∠FGH (polygon)	**CORRECT**	The middle letter, G, is the vertex of the angle.
3	Figure 3: $\overline{JKL}$ (polygon)	**INCORRECT**	A line segment name has exactly two endpoint letters, not three.
4	Figure 4: ∠NOP (polygon)	**CORRECT**	N-O-P names an angle with vertex O in the middle.
5	Figure 5: ∠RS (polygon)	**INCORRECT**	An angle name needs three letters.
6	Figure 6: $\overline{QRST}$ (polygon)	**INCORRECT**	A line segment name has two letters, not four.
7	Figure 7: ∠WXY (polygon)	**CORRECT**	The middle letter, X, is the vertex of the angle.
8	Figure 8: $\overline{CD}$ (polygon)	**CORRECT**	C and D are the two endpoints of a line segment.

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)

- **CORRECT**: In quadrilateral LMNO, $\overline{LM}$.
- **INCORRECT**: In quadrilateral UVWX, ∠UV.

Challenge: $\overline{AC}$ and ∠CDA

Sort answers are 1 CORRECT, 2 CORRECT, 3 INCORRECT, 4 CORRECT, 5 INCORRECT, 6 INCORRECT, 7 CORRECT, 8 CORRECT. For Part 2, students should state that segments use two endpoints and angles use three letters with the vertex in the middle.