

Shape Clue Quest

Use line and side clues to name each shape.

GRADE 3 • MA.3.GR.1

MA.3.GR.1 "Describe and identify relationships between lines and classify quadrilaterals."

NAME _____

DATE _____

READ THE SHAPE CLUES

Parallel lines stay the same distance apart and never meet. Perpendicular lines meet to make a right angle. A quadrilateral has four straight sides, so check its sides, parallel lines, and corners before choosing a shape name.

WORKED EXAMPLE

Two lines cross to make a slanted X. They do not make a right angle. Are the lines parallel or perpendicular?

1. The lines cross, so they are not parallel.
2. The lines do not make a right angle, so they are not perpendicular.
3. Choose neither relationship.

Answer: Neither parallel nor perpendicular.

PRACTICE 6 problems

- 1** Line A and Line B stay the same distance apart. They will never meet. What is their relationship?

ANSWER _____

- 2** Two road edges meet to make a right-angle corner. Are the road edges parallel or perpendicular?

ANSWER _____

- 3** A quadrilateral has exactly one pair of parallel sides. Name the quadrilateral.

ANSWER _____

- 4** A quadrilateral has four equal sides and four right angles. Name the quadrilateral.

ANSWER _____

- 5** A quadrilateral has four right angles. Its long sides are equal, its short sides are equal, and its long sides are longer than its short sides. Name the quadrilateral.

ANSWER _____

- 6** A quadrilateral has four equal sides and no right angles. Name the quadrilateral.

ANSWER _____

APPLY IT Show your work

- 1** A mini-golf course has a starting box with exactly one pair of parallel sides. What quadrilateral shape is the starting box?

WORK SPACE

ANSWER _____

- 2** Mina designs a square sticker for her notebook. The sticker has four equal sides and four right-angle corners. What quadrilateral is the sticker?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

Noah says, "Every rhombus is a square." Is Noah correct? Explain your reasoning.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	Line A and Line B stay the same distance apart. They will never meet. What is their relationship?	parallel lines
2	Two road edges meet to make a right-angle corner. Are the road edges parallel or perpendicular?	perpendicular
3	A quadrilateral has exactly one pair of parallel sides. Name the quadrilateral.	trapezoid
4	A quadrilateral has four equal sides and four right angles. Name the quadrilateral.	square
5	A quadrilateral has four right angles. Its long sides are equal, its short sides are equal, and its long sides are longer than its short sides. Name the quadrilateral.	rectangle
6	A quadrilateral has four equal sides and no right angles. Name the quadrilateral.	rhombus

PART 2 • APPLY IT

1. **trapezoid** A trapezoid has exactly one pair of parallel sides. The starting box is a trapezoid.
2. **square** Four equal sides and four right angles describe a square. The sticker is a square.

CHALLENGE

Noah is not correct. A rhombus has four equal sides, but it may have no right angles. A square has four equal sides and four right angles.

Accept "parallel" or "parallel lines," and "perpendicular" or "perpendicular lines." For the challenge, accept any explanation that says a rhombus does not need to have four right angles.