



# Lines and Symmetry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Fix the Sentence

Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: A square has exactly 2 lines of symmetry.

Rewrite: \_\_\_\_\_

2. Fix the sentence: A circle has only 1 line of symmetry through its center.

Rewrite: \_\_\_\_\_

3. Fix the sentence: A rectangle always has 4 lines of symmetry just like a square.

Rewrite: \_\_\_\_\_

## Part B: Fill in the Blank

Write the missing word or number on each line.

1. A line of symmetry divides a shape into two \_\_\_\_\_ halves.
2. An equilateral triangle has \_\_\_\_\_ lines of symmetry.
3. A regular pentagon has \_\_\_\_\_ lines of symmetry.
4. A shape with no line of symmetry is called \_\_\_\_\_.

## Part C: Short Answer

Answer each question in one or two complete sentences.

1. How can you test whether a line is a line of symmetry?

\_\_\_\_\_  
\_\_\_\_\_

2. Why does a rectangle have fewer lines of symmetry than a square?

\_\_\_\_\_  
\_\_\_\_\_

### Part A: Fix the Sentence

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Each sentence has an error. Rewrite it correctly on the line.

1. Fix the sentence: A square has exactly 2 lines of symmetry.

Rewrite: A square has exactly 4 lines of symmetry: 2 diagonal and 2 through the midpoints of opposite sides.

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2. Fix the sentence: A circle has only 1 line of symmetry through its center.

Rewrite: A circle has infinitely many lines of symmetry because any line through the center divides it into equal halves.

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3. Fix the sentence: A rectangle always has 4 lines of symmetry just like a square.

Rewrite: A rectangle has 2 lines of symmetry through the midpoints of opposite sides. Its diagonals are not lines of symmetry.

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### Part B: Fill in the Blank

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Write the missing word or number on each line.

1. A line of symmetry divides a shape into two equal halves.
2. An equilateral triangle has 3 lines of symmetry.
3. A regular pentagon has 5 lines of symmetry.
4. A shape with no line of symmetry is called asymmetric.

### Part C: Short Answer

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Answer each question in one or two complete sentences.

1. How can you test whether a line is a line of symmetry?

*Fold the shape along the line. If both halves match exactly, the line is a line of symmetry.*

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2. Why does a rectangle have fewer lines of symmetry than a square?

*A rectangle has unequal side lengths, so its diagonals do not create matching halves, while a square has equal sides so all four possible fold lines work.*

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