

Grade 4 - Lines of Symmetry - Quiz

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Name: _____ Class: _____ Date: ____/____/____

Take this 10-question quiz on lines of symmetry. Pick the best answer. Some questions show a picture with a dashed line. The explanations tell how to check by folding and point out common mistakes, like counting the diagonals of a rectangle.

Grade 4 · Common Core State Standards: **4.G.A.3**

Questions

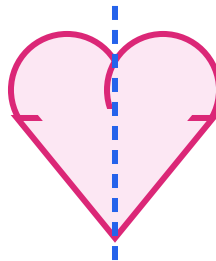
Question 1

A figure has a line of symmetry when

- A. it can be folded so both halves match exactly
- B. all of its sides have equal length
- C. it has exactly four corners
- D. it has at least one curved edge

Question 2

Does the dashed line show a line of symmetry?



A heart.

- A. No, the halves are different sizes
- B. Yes, the two halves match
- C. No, hearts have no symmetry
- D. Only if the heart is turned

Question 3

How many lines of symmetry does a square have?

- A. 1
- B. 4
- C. 2
- D. 8

Question 4

How many lines of symmetry does a rectangle that is not a square have?

- A. 2
- B. 4
- C. 1
- D. 0

Question 5

How many lines of symmetry does an equilateral triangle have?

- A. 3
- B. 1
- C. 2
- D. 6

Question 6

How many lines of symmetry does the letter shown have?



The letter H.

- A. 1
- B. 0
- C. 4
- D. 2

Question 7

How many lines of symmetry does this slanted parallelogram have?



A slanted parallelogram.

- A. 1
- B. 2
- C. 0
- D. 4

Question 8

How many lines of symmetry does a regular hexagon have?

- A. 3
- B. 6
- C. 12
- D. 1

Question 9

Which letter has no line of symmetry?

- A. A
- B. H
- C. T
- D. F

Question 10

How many lines of symmetry does a circle have?

- A. exactly 1
- B. exactly 4
- C. too many to count
- D. none

Answers

1. **A** – Line symmetry is about matching halves. Equal sides or corners do not decide it.
2. **B** – The left and right halves of the heart are mirror images, so the dashed line is a line of symmetry.
3. **B** – A square has 2 lines through the middles of opposite sides and 2 diagonals, so 4 in all.
4. **A** – Only the two lines through the middles of opposite sides work. The diagonals do not match the halves.
5. **A** – There is one line from each corner to the middle of the opposite side, so 3 lines.
6. **D** – H can be folded up and down and across, so it has a vertical line and a horizontal line.
7. **C** – No fold makes the halves match. Folding along a diagonal gives halves that do not line up.
8. **B** – A regular polygon has as many lines of symmetry as sides. A hexagon has 6 sides.
9. **D** – F cannot be folded to match. A and T have a vertical line, and H has two lines.
10. **C** – Any line through the center folds a circle into matching halves, so there are more than you can count.

Remember

- A line of symmetry splits a figure into two matching halves.
- A square has 4 lines of symmetry, a rectangle has 2, and an equilateral triangle has 3.
- A regular polygon with n sides has n lines of symmetry.
- Some figures, like a slanted parallelogram, have no lines of symmetry.
- Check by folding: the edges and corners must line up exactly.