

# NWEA Assessment Item Illustrating 4.G.A.3


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**Domain:** Geometry

**4.G.A:** Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

**Calculator Availability:** No

Use the square to answer the question.



How many lines of symmetry does the square have? Enter the answer in the box.

**Alignment: 4.G.A.3:** Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.


The emphasis in the grade 4 Geometry domain is lines and angles. Students learn terms such as *parallel* and *perpendicular*, and they learn about lines of symmetry. This is a straightforward item that assesses if students can recognize a line of symmetry and determine how many lines of symmetry can be drawn on the square.

**Coherence:** The work students do in grade 4 with angles and lines provides a foundation for the grade 5 Geometry domain, for which they will use angle and line properties to classify shapes and place them in hierarchies.<sup>5.G.B</sup> Grade 4 work also prepares students for the coordinate plane in grade 5.<sup>5.G.A</sup> Students need to understand properties of lines (e.g., perpendicularity) and angles in order to understand the coordinate plane.

**Rigor:** This item attends to conceptual understanding. Students use the grade-level concept of lines of symmetry to identify all the lines of symmetry that a square has.

**Answer Key:**

Use the square to answer the question.



How many lines of symmetry does the square have? Enter the answer in the box.

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