NWEA Assessment Item Illustrating 3.MD.C.6

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Domain: Measurement and Data

3.MD.C: Geometric measurement: understand concepts of area and relate area to multiplication and to addition.

Calculator Availability: No

Use the information to complete the task.
Mia wants to make a rectangle that has a total area of 12 square units. She places one shaded square on the grid. Each shaded square has an area of 1 square unit.
Move more shaded squares to the grid to make a rectangle that has an area of 12 square units.

Alignment: 3.MD.C.6: Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).

This item assesses foundational understandings about area. Before students learn to multiply side lengths to find the area of a rectangle, they must understand what area is. Students apply the understanding that area is the two-dimensional space taken up by a figure and that it is typically measured in units that are square.

Coherence: Area concepts are an extension of the linear measurement work that students started in grade 2^{2.MD.A.1} when they learned to measure using standard units and tools, such as rulers. Learning area measurement in grade 3 provides a basis for the work that students will do in grade 5 when they learn about volume.^{5.MD.C}

Rigor: This item attends to conceptual understanding of area.

Answer Key: This item has more than one acceptable correct response. One response is shown here.

Use the information to complete the task.
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Move more shaded squares to the grid to make a rectangle that has an area of 12 square units.

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