

Name:

Date:

## Beading #2

(GS02/SR01)

On-Demand (Check One)

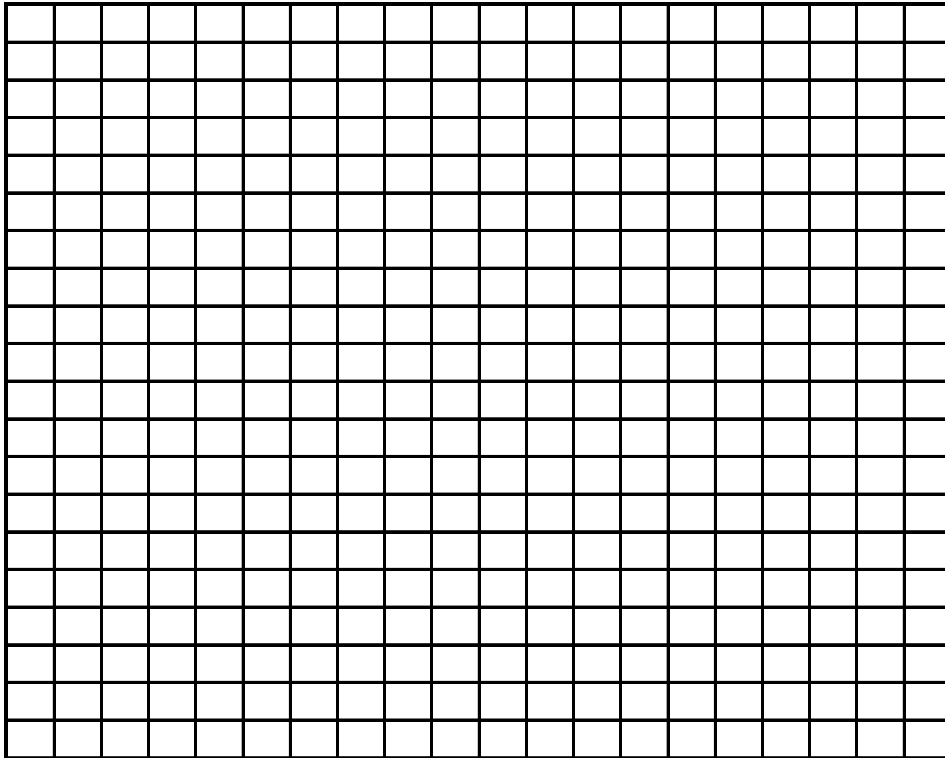
Yes

No

**Students must complete Beading Design #1 first.**

You have the beginning of your design from Beading Design #1 and need to finish the design before you can determine how many beads you need for the design. To complete your design you are going to use multiple transformations (reflections, translations, rotations) to create congruent figures.

1. Use a combination of **at least two** transformations (reflection, translation, rotation) on your original design in to draw an image of the design in either quadrant III or quadrant IV.



2. Describe what transformations you used.

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You now have your completed design and need to determine how many beads you will need to make your design.

3. List two pieces of information you know about your design that will help you determine the number of each color of bead (red and green) needed to make your design. Describe how to use those pieces of information to determine the number of each color of bead needed to make your design.

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4. List one piece of information about your design that is **not** needed to determine the number of each color of bead needed to make your design. Describe why this piece of information is **not** needed to determine the number of each color of bead needed to make your design.

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5. Write two questions that would need to be answered to determine the number of each color of bead needed to make your design. Be sure to write them as questions.

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6. List two pieces of information that are unknown and are needed to answer one or more of your questions from problem #5. Describe how to use those pieces of information to determine the number of each color of bead needed to make your design.

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