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



6.G.2

1. A jewelry store’s gift box is in the shape of a rectangular prism. The length and width measures 2 ¾ inches and the height of the box measures 1 ¾ inch. Between which two whole numbers is the volume, in cubic inches, of the gift box?

Between \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_ cubic inches.

1. Box A has the following dimensions: 8 inches x 4 inches x 2 inches. Box B has the following dimensions: 3 inches x 6 inches x 4 inches.

Which Box has a larger volume? Show your work.

How much more can the larger box hold?

1. If the volume of a rectangular prism is 36 cubic feet. What could the dimensions (height, length, width) be?
2. Will 150 cubic centimeters of sand fit inside a 4 cm x 3 cm x 11 cm rectangular prism container? Show your work and explain your reasoning.

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