Math Practice - Grade 6

M12 Volume and surface area - Volume with fractional edge lengths

M12 6.G.A.2, 6.G.A.4

Name: _____ Date: _____

Multiply the three edge lengths to find the volume.

Example: Find the volume of the rectangular prism. The edges are 3, 6, and 1/2.

How: Volume is length times width times height, even with fractions. Multiply the top numbers, multiply the bottom numbers, and simplify.

$3 \times 6 \times \frac{1}{2} =$

9

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1 **Find the volume of the rectangular prism. The edges are 6, 4 1/4, and 1 1/2.**

$6 \times 4\frac{1}{4} \times 1\frac{1}{2} =$ ☐ ☐

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2 **Find the volume of the rectangular prism. The edges are 8 2/3, 4 1/4, and 4.**

$8\frac{2}{3} \times 4\frac{1}{4} \times 4 =$ ☐ ☐

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3 **Find the volume of the rectangular prism. The edges are 3/4, 1, and 9 1/2.**

$\frac{3}{4} \times 1 \times 9\frac{2}{4} =$ ☐ ☐

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M12 6.G.A.2, 6.G.A.4

Name: _____ Date: _____

Multiply the three edge lengths to find the volume.

Example: Find the volume of the rectangular prism. The edges are 1, 7 1/4, and 3 2/3.

How: Volume is length times width times height, even with fractions. Multiply the top numbers, multiply the bottom numbers, and simplify.

$1 \times 7\frac{1}{4} \times 3\frac{2}{3} = \frac{26}{12}$

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1 **Find the volume of the rectangular prism. The edges are 9 1/4, 8 1/2, and 9.**

$9\frac{1}{4} \times 8\frac{1}{2} \times 9 =$ ☐

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2 **Find the volume of the rectangular prism. The edges are 1 2/3, 4, and 1.**

$1\frac{2}{3} \times 4 \times 1 =$ ☐

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3 **Find the volume of the rectangular prism. The edges are 8 3/4, 8, and 1 1/2.**

$8\frac{3}{4} \times 8 \times 1\frac{2}{4} =$ ☐

Math Practice - Grade 6

M12 Volume and surface area - Volume with fractional edge lengths

M12 6.G.A.2, 6.G.A.4

Name: _____ Date: _____

Multiply the three edge lengths to find the volume.

Example: Find the volume of the rectangular prism. The edges are 2, 9 3/4, and 9 1/3.

How: Volume is length times width times height, even with fractions. Multiply the top numbers, multiply the bottom numbers, and simplify.

$2 \times 9\frac{3}{4} \times 9\frac{1}{3} =$ 182

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1 **Find the volume of the rectangular prism. The edges are 1 2/3, 2, and 2.**

$1\frac{2}{3} \times 2 \times 2 =$ ☐ ☐

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2 **Find the volume of the rectangular prism. The edges are 8 1/2, 2 2/3, and 8 3/4.**

$8\frac{2}{4} \times 2\frac{2}{3} \times 8\frac{3}{4} =$ ☐ ☐

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3 **Find the volume of the rectangular prism. The edges are 9 1/2, 2 1/2, and 4.**

$9\frac{1}{2} \times 2\frac{1}{2} \times 4 =$ ☐