# Volume of Rectangular Prisms

FLORIDA GRADE 6 MATH | B.E.S.T. BENCHMARK MA.6.GR.2.3 | STUDENT WORKSHEET

**Name:** _____ **Date:** _____

**Directions:** Solve each problem. Show your work in the space provided.

**1.** A prism is 6 cm by 3.5 cm by 2 cm. What is its volume?

**2.** A prism is $1\frac{1}{2}$ ft by 4 ft by $\frac{2}{3}$ ft. What is its volume?

**3.** A prism has a volume of 96 cubic units, a length of 8 units, and a width of 4 units. What is its height?

**4.** A box is 10 in by 5 in by 4.2 in. What is its volume?

**5.** How many $\frac{1}{2}$-inch cubes fill a box that is 2 inches by 1 inch by 1 inch?

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## Answer Key

**1. 42 cubic centimeters**

$6 \times 3.5 \times 2 = 42$

**2. 4 cubic feet**

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

**3. 3 units**

$8 \times 4 \times 3 = 96$

**4. 210 cubic inches**

$10 \times 5 \times 4.2 = 210$

**5. 16 cubes**

8 small cubes fit in each cubic inch, and $8 \times 2 = 16$

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