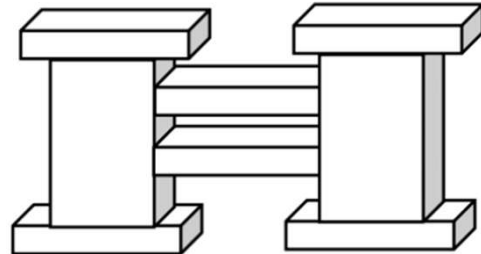


Volume of Rectangular Prisms Worksheets

1. A sculpture (pictured below) is made of two sizes of rectangular prisms. One size measures 13 in by 8 in by 2 in. The other size measures 9 in by 8 in by 18 in. What is the total volume of the sculpture?



2. The combined volume of two identical cubes is 128 cubic centimeters. What is the side length of each cube?

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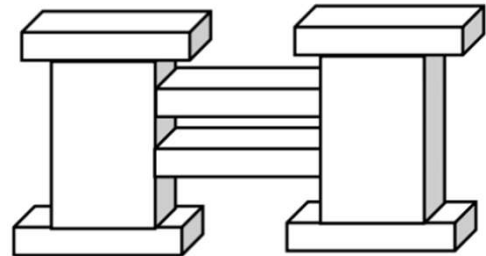
$$\begin{array}{r} 72 \\ \times 18 \\ \hline 576 \\ 720 \\ \hline 1,296 \end{array}$$

Volume_B = 9 in × 8 in × 18 in
= 72 in² × 18 in
= 1,296 in³

$$\begin{array}{r} 208 \text{ in}^3 \\ \times 6 \\ \hline 1,248 \text{ in}^3 \end{array}$$

$$\begin{array}{r} 1,296 \text{ in}^3 \\ \times 2 \\ \hline 2,592 \text{ in}^3 \end{array}$$

$$\begin{array}{r} 1,248 \\ + 2,592 \\ \hline 3,840 \end{array}$$



The total volume of the sculpture is
3,840 in³

2. The combined volume of two identical cubes is 128 cubic centimeters. What is the side length of each cube?

total volume
128 cm³

64 cm³
64 cm³

$$4 \text{ cm} \times 4 \text{ cm} \times 4 \text{ cm} = 64 \text{ cm}^3$$

Each side length on each cube is 4 cm.