GRADE 7 MATH · CLASSWORK · ADVANCED

Solve Problems Involving Volume

SCORE / 25

01 Part A · Practice

Break a composite solid into prisms, find each volume (V = Bh), and add or subtract.

EXAMPLE

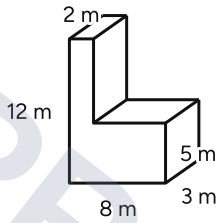
An L-shaped prism is 4 m deep. Its L-face is a 6 by 5 rectangle missing a 2 by 3 corner. Find the volume.

1. Base area: $6 \times 5 - 2 \times 3 = 24$ m^2.
2. Multiply by the depth: 24×4.
3. $V = 96$ m^3.

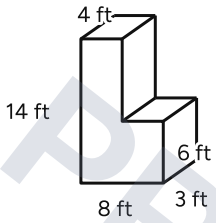
1 ●○○ A 15 × 13 × 12 in. block ($\ell \times w \times h$) has an 8 by 7 in. rectangular hole all the way along its length. Find the volume left.

2 ●○○ A 7 by 5 by 6 ft box sits on top of an 11 by 6 by 4 ft box. What is the total volume?

3 ●○○ Find the volume of the composite prism.



4 ●○○ Find the volume of the composite prism.



5 ●○○ A 7 by 5 by 4 ft box sits on top of a 10 by 5 by 5 ft box. What is the total volume?

6 ●○○ A 7 × 10 × 12 in. block ($\ell \times w \times h$) has a 7 by 1 in. rectangular hole all the way along its length. Find the volume left.

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Preview - the full worksheet and its answer key are at primeworksheet.com