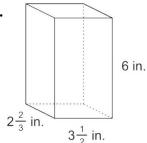
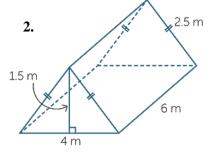
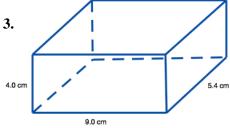
Volume Practice

Find the volume of each prism.

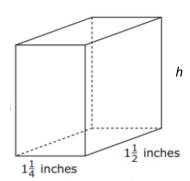
1.



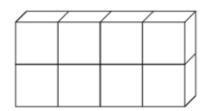




4) Find the missing dimension if the volume of the prism is $3\frac{3}{4}$ cubic inches.



5) The right rectangular prism below is made up of $\,8\,$ cubes. Each cube has an edge length of $\,\frac{1}{2}$ inch.



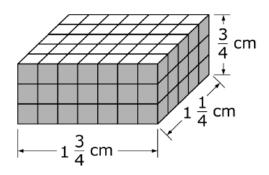
What is the volume of this prism?

Elizabeth and Virat use small cubes to make the rectangular prism as shown below.

The length of each edge of the small cubes is centimeter.

Elizabeth uses a volume formula to find that the volume of the prism is cubic centimeters.

Virat decides to count the cubes to find the volume of the prism.



Part A

How many of the small cubes with edge length $\frac{1}{4}$ centimeter does Virat count in the prism?

	cubes

Part B

What is the volume, in cubic centimeters, of one of the small cubes with edge length $\frac{1}{4}$ centimeter? Write the volume as a fraction.

Part C

Using Virat's method, find the prism's volume, in cubic centimeters. Explain how the volume found is the same as the volume found using Elizabeth's method.

7) Andy completely filled the container shown below with small cubes that were each $\frac{1}{2}$ inch long. Show how he can calculate the volume of the container using these cubes and instead of the formula.

