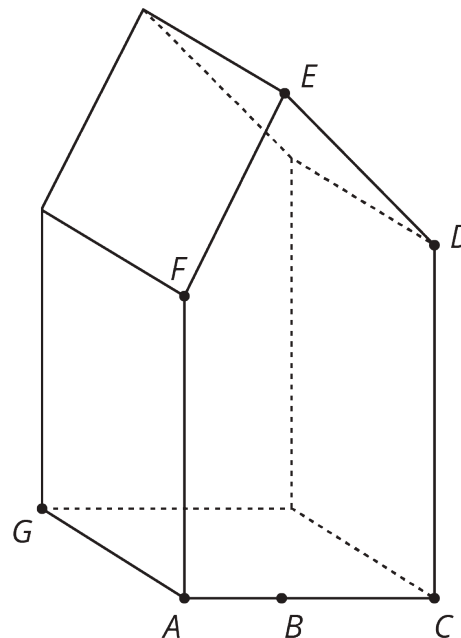


Unit 7 Lesson 13 Cumulative Practice Problems

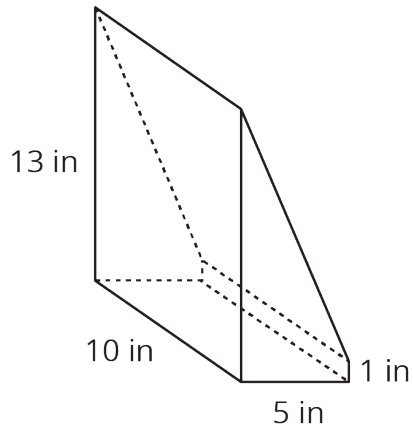
1. You find a crystal in the shape of a prism. Find the volume of the crystal.

The point B is directly underneath point E , and the following lengths are known:

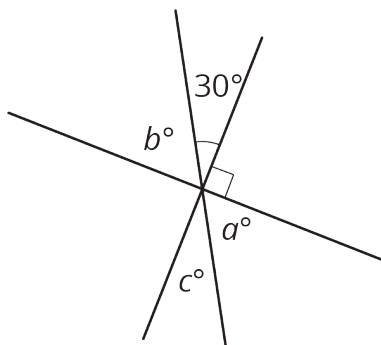
- From A to B : 2 mm
- From B to C : 3 mm
- From A to F : 6 mm
- From B to E : 10 mm
- From C to D : 7 mm
- From A to G : 4 mm



2. A rectangular prism with dimensions 5 inches by 13 inches by 10 inches was cut to leave a piece as shown in the image. What is the volume of this piece? What is the volume of the other piece not pictured?



4. Select **all** equations that represent a relationship between angles in the figure.



A. $90 - 30 = b$

B. $30 + b = a + c$

C. $a + c + 30 + b = 180$

D. $a = 30$

E. $a = c = 30$

F. $90 + a + c = 180$

(From Unit 7, Lesson 4.)

5. A mixture of punch contains 1 quart of lemonade, 2 cups of grape juice, 4 tablespoons of honey, and $\frac{1}{2}$ gallon of sparkling water. Find the percentage of the punch mixture that comes from each ingredient. Round your answers to the nearest tenth of a percent. (Hint: 1 cup = 16 tablespoons)

(From Unit 4, Lesson 9.)