

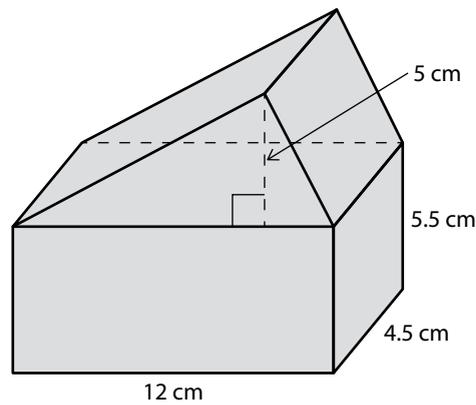
Ready® Mathematics

Lesson 23 Quiz

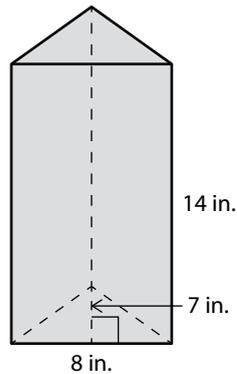
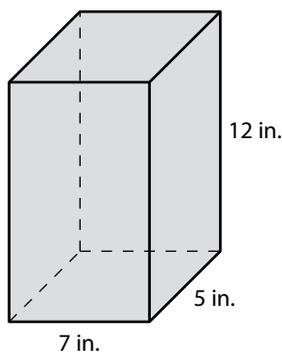
Solve the problems.

- 1** Adrian cuts a block of wood as shown.
What is the volume of the block of wood?

Answer: _____ cubic centimeters



- 2** Two prisms are shown below.



Which statements about the volumes of the prisms are true?

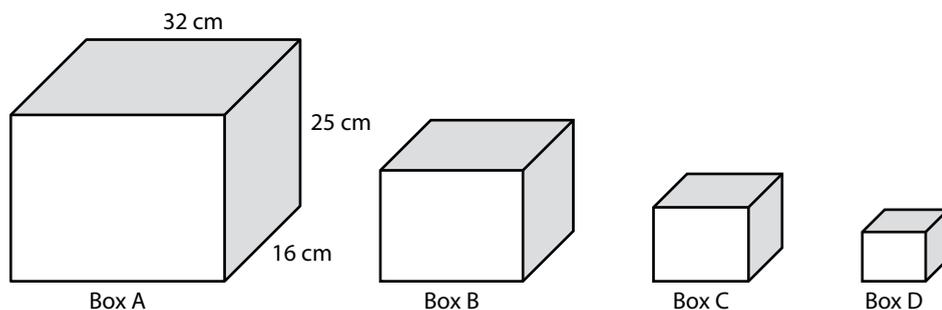
Choose all that apply.

- A** The triangular prism holds more than the rectangular prism.
- B** If the front base edge of the triangular prism is increased by 1 inch, it will hold more than the rectangular prism.
- C** If the height of the rectangular prism is decreased by 1 inch, it will hold less than the triangular prism.
- D** If the front base edge of the rectangular prism is decreased by 1 inch, it will hold more than the triangular prism.
- E** If the height of the triangular prism is decreased to match the height of the rectangular prism, the two prisms will hold the same amount.



Lesson 23 Quiz continued

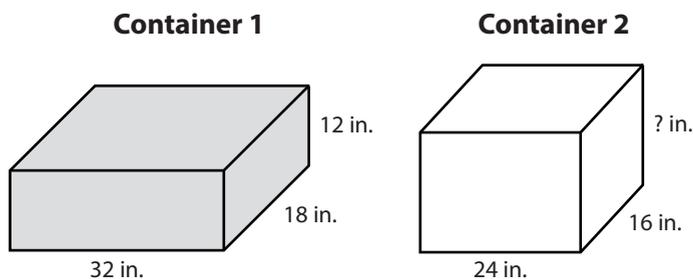
- 3** Four boxes are shown in order from the largest volume to the smallest volume. For each box, all of the dimensions are 3.5 cm less than the next larger box.



To the nearest cubic centimeter, what is the volume of Box D?

- A** 3,657 cubic centimeters
- B** 1,715 cubic centimeters
- C** 1,044 cubic centimeters
- D** 299 cubic centimeters

- 4** Two glass containers are shown. Both are right rectangular prisms. Container 1 is filled with water and Container 2 is empty.



Amalia wants to pour all of the water from Container 1 into Container 2. What must the height of Container 2 be in order for it to hold exactly the same amount of water as Container 1?

Show your work.

Answer: _____ inches

