

## LESSON 18

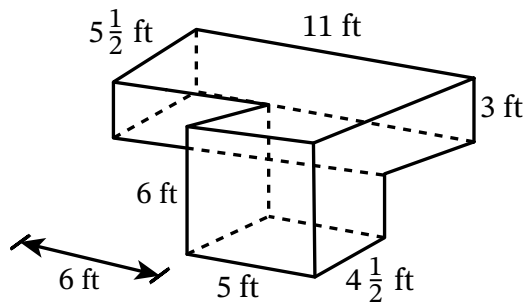
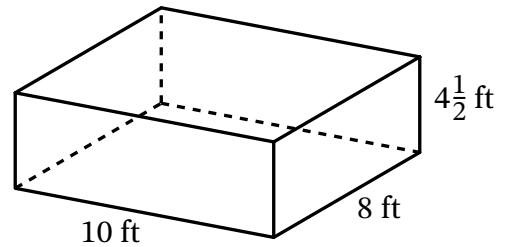
Name \_\_\_\_\_

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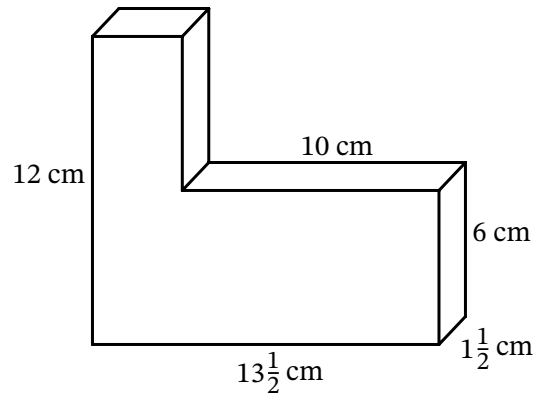
**Volumes of Composite Solids****L-Shaped Solids**

For problems 1–3, all angles in the diagrams are right angles.

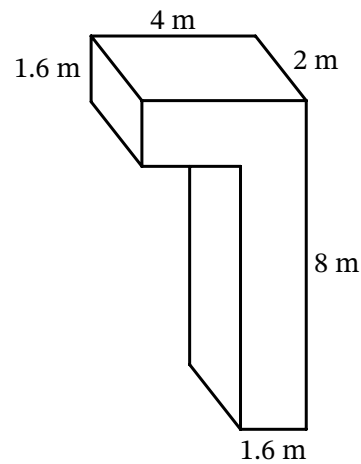
1. Which pool has a greater volume? Show how you know.

**Julie's L-Shaped Pool****Blake's Rectangular Pool**

2. Determine the volume of the solid. Show how you know.



3. Which expression represents the volume of the solid in cubic meters?

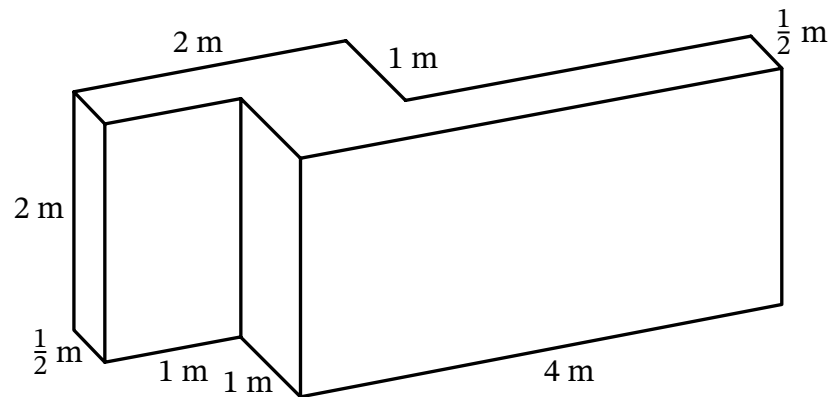


- A.  $(4)(2)(1.6) + (1.6)(2)(8)$
- B.  $(4)(2)(1.6) + (4)(8)(1.6)$
- C.  $(4)(2)(8) + (4)(2)(1.6)$
- D.  $(4)(2)(1.6) + (1.6)(2)(6.4)$

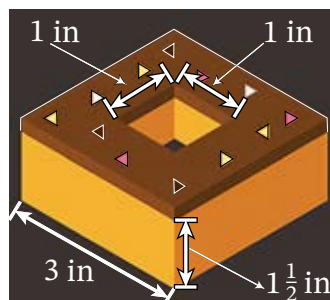
## Doughnuts and Other Composite Solids

For problems 4–6, all angles are right angles.

4. What is the volume of the solid? Show your work.



5. A doughnut shop makes square doughnuts as shown. What is the volume of the doughnut? Show your work.



6. Mr. Sharma makes steps out of concrete as shown. The height of each step is 7 inches. On the two bottom steps, the top of each step measures 10 inches from the front edge to the back edge. How many cubic inches of concrete does Mr. Sharma need to make the steps?

