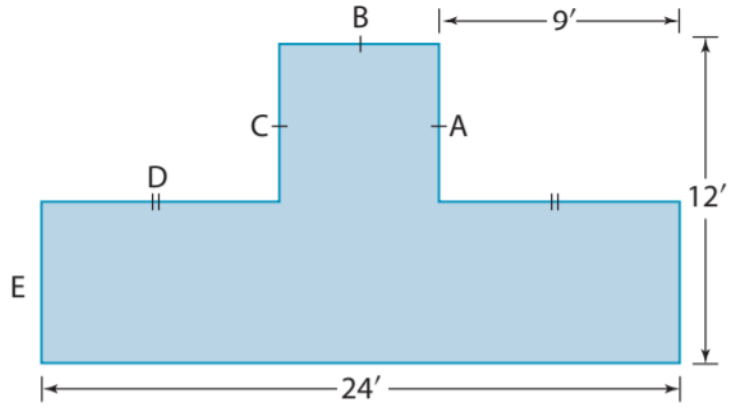
Finding Missing Dimensions Practice

Example Determine the lengths of walls A to E identified on the diagram.



Solution

The first dimension that can be determined is D.

It is the same length as the wall with the same number of hash marks. So, wall D is 9 feet long.

B is next. $9 + 9 = 18$. The length of the wall at the bottom of the drawing is 24 feet. The length of the wall at the top must be the same.

Therefore, B must be $24 - 18 = 6$ feet long.

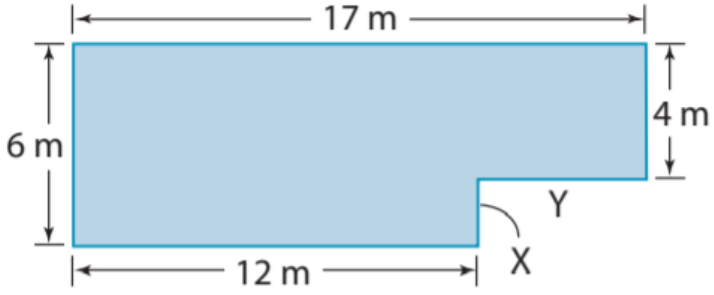
The hash marks on the diagram indicate that A and C are the same length as B, so they are 6 feet long as well.

Since A is 6 feet and the overall dimension on the left of the diagram is 12 feet, E must also be 6 feet long.

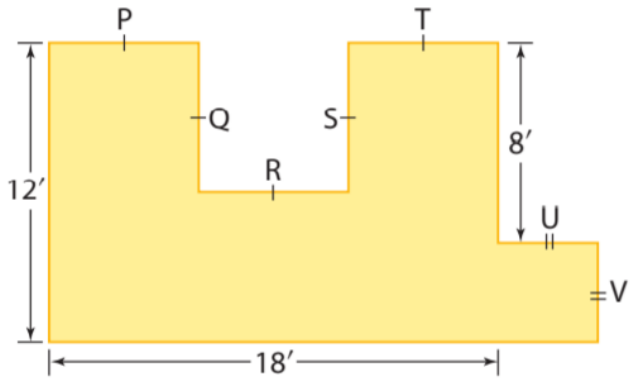
C is also 6′ long. You could use the length of C to calculate the length of E.

1. Determine the missing dimensions.

a)

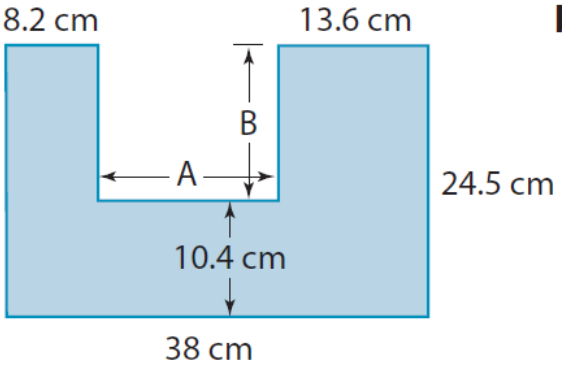


b)

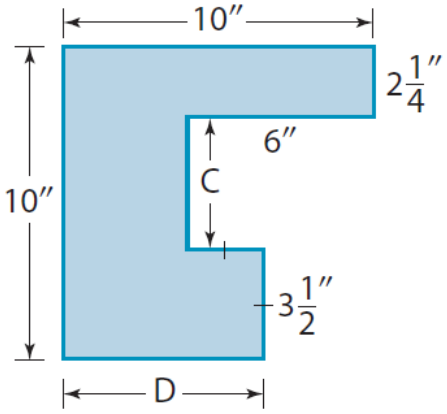


2. Determine the missing dimensions.

a)



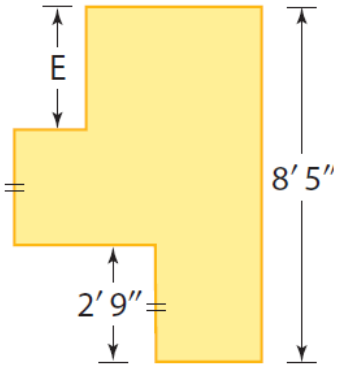
b)



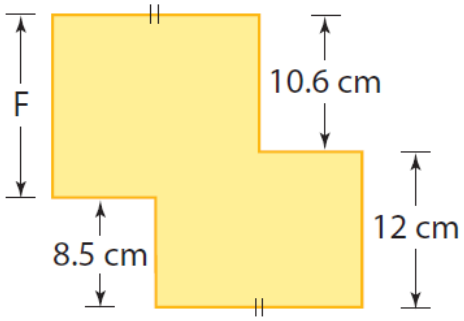
3. Calculate the perimeters of the figures in #1.

4. Determine the missing dimensions.

a)



b)



5. Calculate the perimeters in #4.

6. Krista wants to make a simple dress for her niece. She downloads a dress pattern from the Internet. Krista wants to put a decal above the waistband on the front. Is there enough room for the decal shown? Show your work.