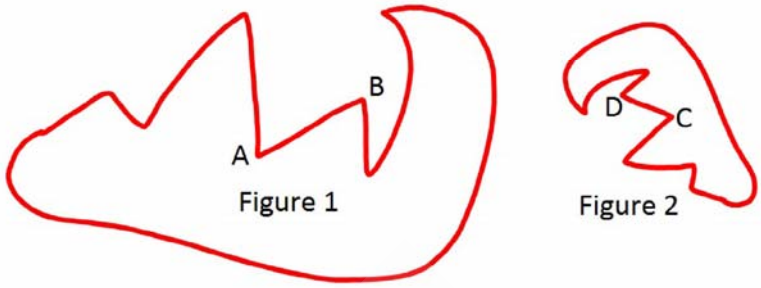
Name: _____ Class: _____ Date: _____ ID: A

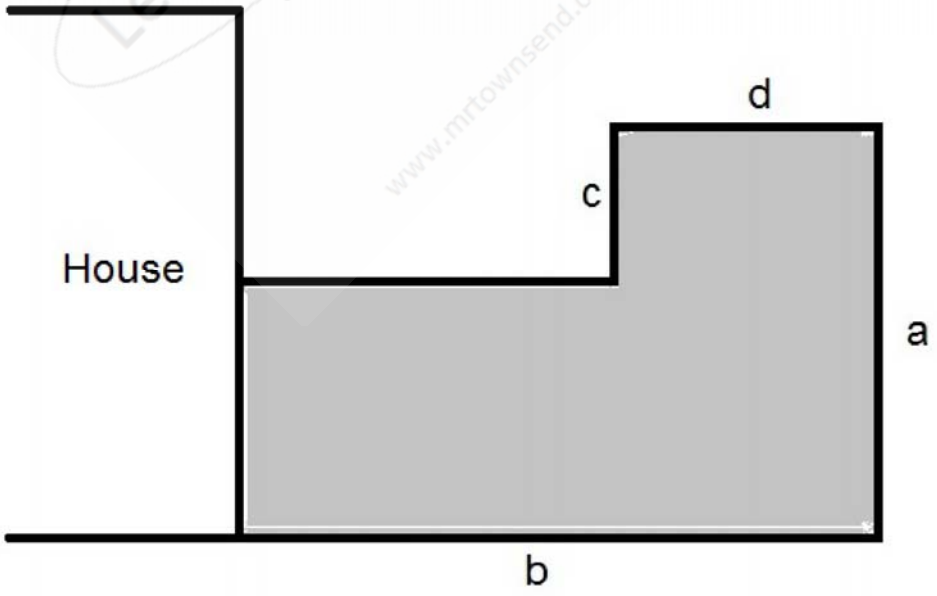
Similar Figures Perimeters

1. The two figures are similar. The length of side $\overline{AB}$ is 15 centimeters and the lenght of the corresponding side of $\overline{DC}$ is 8 centimeters. If the perimeter of figure 1 is 208.5 centimeters, what is the perimeter of figure 2 to the nearest centimeter?

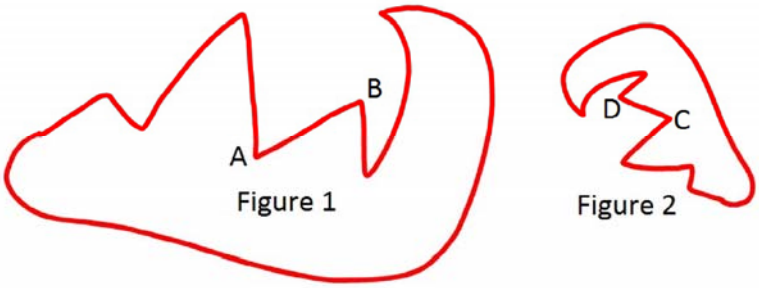


2. Your yard is fenced with 227 feet of wooden fence. Your buddy, Jane, has a similar yard and would like to install the same fence. If the scale fator of your yard to Jane's is 9:8, how much fence will she need to install to the nearest foot?

3. You are helping your buddy, Steve, build a deck in his back yard. Steve has made an outline of the deck and it is shaded gray. Every half an inch inch in the outline is one foot for the actual deck. The lengths, in inches, on the drawing are as follows; a = 8, b = 13, c = 3, and d = 5. If he installs railing around the perimeter except along the house, how many feet or railing will that be?

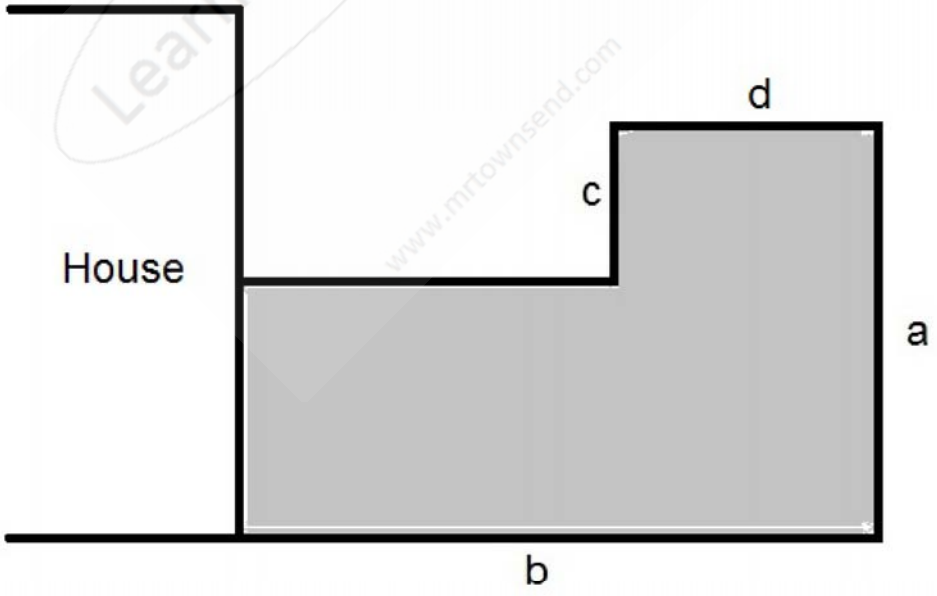


4. The two figures are similar. The perimeter of figure 1 is 73.0 yards, and the perimeter of figure 2 is 29.2 yards. If the length of side $\overline{CD}$ is 2 yards, what is the length of corresponding side $\overline{AB}$ to the nearest yard?



5. Your yard is fenced with 232 feet of wooden fence. Your buddy, Susan, has a similar yard and would like to install the same fence. If the scale fator of your yard to Susan's is 8:7, how much fence will she need to install to the nearest foot?

6. You are helping your buddy, Steve, build a deck in his back yard. Steve has made an outline of the deck and it is shaded gray. Every quarter of an inch inch in the outline is one foot for the actual deck. The lengths, in inches, on the drawing are as follows; a = 5, b = 7, c = 2, and d = 3. If he installs railing around the perimeter except along the house, how many feet or railing will that be?



Similar Figures Perimeters
Answer Section

1. 111.2
2. 202
3. 74
4. 5
5. 203
6. 84