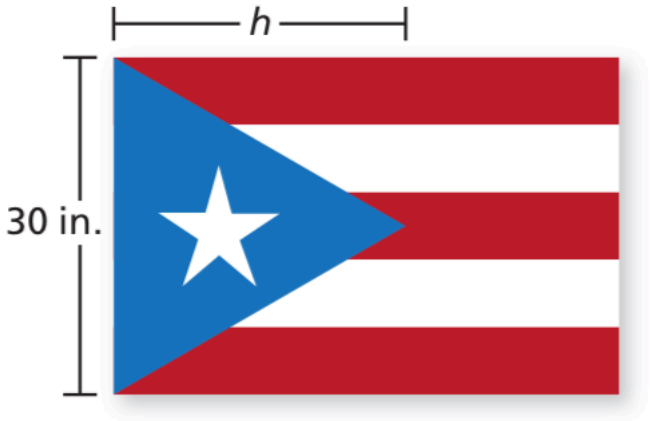
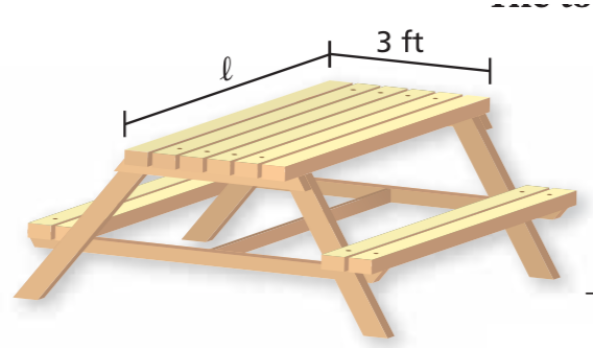
Name _____

Missing Dimensions and Changing Dimensions

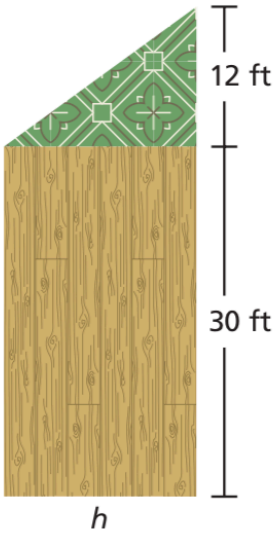
1) The blue triangle in the Puerto Rican flag has an area of 390 in^2. What is the height of the triangle?



2) The top of the table has a perimeter of 22 feet. What is the length?



3) The rectangular part of a dance studio covers 495 ft^2. What is the area of the triangular part?



4) You plant 576 flower seeds in a window box. You plant 3 seeds per square inch. The box is 8 inches wide. How long is it?

5) A mural has a perimeter of 20 feet and an area of 24 ft^2. Find the length and width of the mural.

6)

Here is a rectangle:

Which of the following dimensions would create a rectangle with the same perimeter but a **lesser area**?

a. 8 feet by 8 feet
b. 3 feet by 16 feet
c. 2 feet by 24 feet
d. 2 feet by 14 feet

If you increase each side length of the rectangle above by one unit, how many units greater will the new **perimeter** be?

a. 1 unit
b. 2 units
c. 4 units
d. 8 units

7)

Here is a rectangle:

If you increase each side length of this rectangle by 1 unit, how many square units greater will the new **area** be?

a. 4 square units
b. 6 square units
c. 10 square units
d. 11 square units