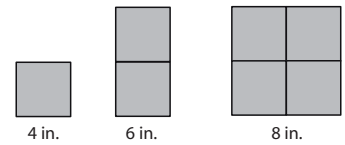




Problem Solving: Find a Pattern

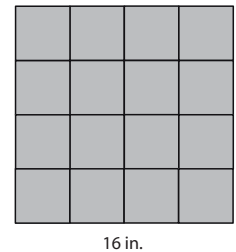
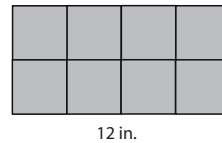
CA Standards
MR 1.1, AF 2.2

Don used 1-inch tiles to make the pattern at the right. A 1-inch tile measures 1 inch on each side. If Don continues this pattern, what will the fifth figure look like and what will its perimeter be?



Step 1: Find the perimeters of the first 3 figures.

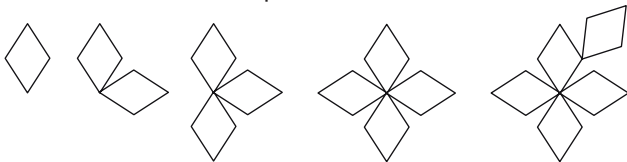
Step 2: Create the next 2 figures in the pattern and measure the perimeters.



Solution: The perimeter of the fifth figure will be 16 inches.

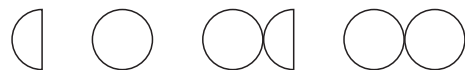
Find the pattern to solve each problem.

1. Lauren created this pattern with diamond shapes.



If she continues this pattern, how many diamonds will the 9th figure have?

2. Belinda created this pattern using half circles.



If each circle has a width of 1 inch, what will be the width of the sixth figure?



Writing Math Gail can't understand how the perimeter in the patterns of triangles could actually get smaller as the figures grow larger. How would you explain this to her?
