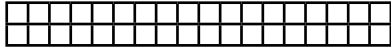
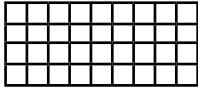
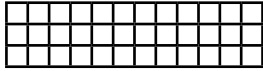


Same Area, Different Perimeter

Make three rectangles with an area of 36 square feet that have a different perimeter. Use grid paper or color tiles to help you.

1st Rectangle	2nd Rectangle	3rd Rectangle
		
Find the area: $A = l \times w$ $= 18 \times 2$ $= 36$ square feet	Find the area: $A = l \times w$ $= 4 \times 9$ $= 36$ square feet	Find the area: $A = l \times w$ $= 12 \times 3$ $= 36$ square feet
Find the perimeter: $P = (2 \times l) + (2 \times w)$ $= (2 \times 18) + (2 \times 2)$ $= 36 + 4 = 40$ feet	Find the perimeter: $P = (2 \times l) + (2 \times w)$ $= (2 \times 9) + (2 \times 4)$ $= 18 + 8 = 26$ feet	Find the perimeter: $P = (2 \times l) + (2 \times w)$ $= (2 \times 12) + (2 \times 3)$ $= 24 + 6 = 30$ feet

Solve.

1. Draw two different perimeters of a rectangle with an area of 14 units. Name their dimensions.

2. **Number Sense** A rectangle has an area of 42 square inches. Which has a greater perimeter, the rectangle with the dimensions 21×2 or the dimensions 6×7 ? _____