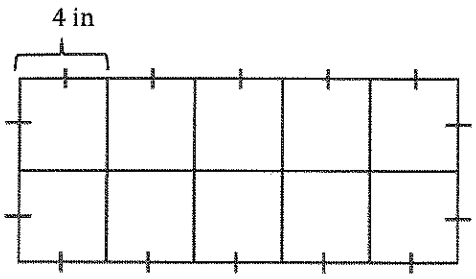
G3-M7-Lesson 23

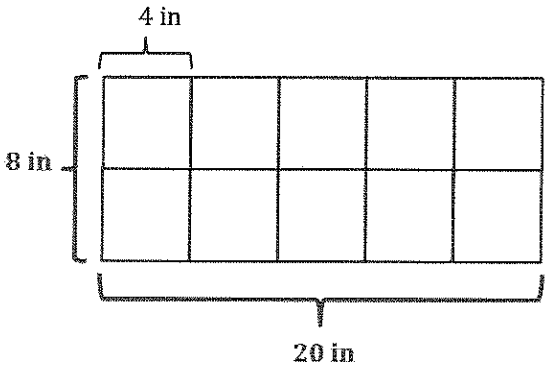
1. Madison uses 4-inch square tiles to make a rectangle, as shown below. What is the perimeter of the rectangle in inches?



$P = 14$ fours
$= 10$ fours $+ 4$ fours
$= 40 + 16$
$= 56$

Since Madison uses square tiles, I know that each side length of a tile measures 4 inches. I can then count the total number of side lengths that make up the perimeter of the rectangle, which is 14. Then I can find the perimeter by multiplying 14×4, or in unit form, 14 fours. I can use the break apart and distribute strategy to find the total.

I can also break up 14 fours as 7 fours + 7 fours, but $28 + 28$ is harder mental math than $40 + 16$.



$P = (2 \times 8 \text{ in}) + (2 \times 20 \text{ in})$
$= 16 \text{ in} + 40 \text{ in}$
$= 56 \text{ in}$

Another way to find the perimeter is to find the value of the rectangle's side lengths. I can use repeated addition, skip-counting, or multiplication to find the side lengths. Then, I can double each side length and add to find the perimeter.

The perimeter of the rectangle is 56 inches.