

Math Message

Helen wants to paint the sidewalk for her block party. She needs to know the area of the sidewalk so she'll know how much paint to buy. The sidewalk is 5 feet wide and 660 feet long.

What is the area of Helen's sidewalk? $5 * 660 = 3,300$ square feet

- 1 Draw a picture to represent Helen's sidewalk.

Sample answers: See
Teacher's Lesson Guide, page 360.

- 2 Show how you figured out the area of the sidewalk.

- 3 The mayor wants to beautify part of the highway by planting marigolds. She wants to plant 4 marigolds along every foot of highway for an entire mile, or 5,280 feet.

How many marigolds will she need? $21,120$ marigolds

Draw a partitioned rectangle to represent the problem. Then use partial-products multiplication to record your work in a simpler way.



Partitioned Rectangle	Partial-Products Multiplication
$5,000 + 200 + 80$ $5,280$	$\begin{array}{r} 5,280 \\ * \quad 4 \\ \hline 20000 \\ \quad 800 \\ + \quad 320 \\ \hline 21,120 \end{array}$