3. The area of a rectangle is 36 square centimeters, and its length is 9 centimeters.

   a. What is the width of the rectangle?

   b. Elsa wants to draw a second rectangle that is the same length but is 3 times as wide. Draw and label Elsa's second rectangle.

   c. What is the perimeter of Elsa's second rectangle?

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4. The area of Nathan's bedroom rug is 15 square feet. The longer side measures 5 feet. His living room rug is twice as long and twice as wide as the bedroom rug.

    a. Draw and label a diagram of Nathan's
        bedroom rug. What is its perimeter?

    b. Draw and label a diagram of Nathan's living
        room rug. What is its perimeter?

    c. What is the relationship between the two perimeters?

    d. Find the area of the living room rug using the formula $A = l \times w$.

e. The living room rug has an area that is how many times that of the bedroom rug?

f. Compare how the perimeter changed with how the area changed between the two rugs. Explain what you notice using words, pictures, or numbers.

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