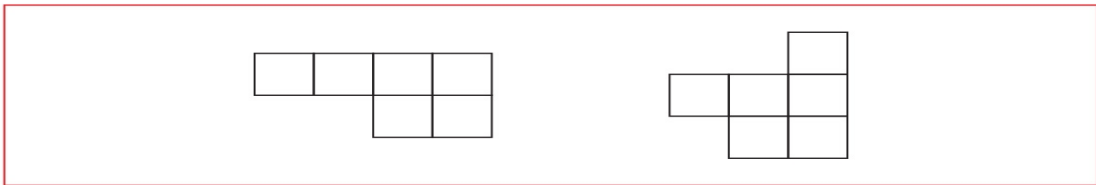


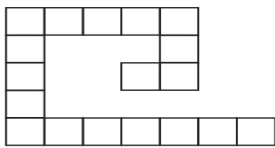
COVERING & SURROUNDING MATH BOOK

answer key

Draw two different shapes, each with an area of 6 square units and perimeter of 12 units.

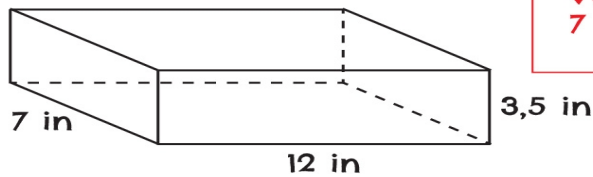


Copy the design below onto grid paper. Add six squares to make a new design with a perimeter of 30 units. Explain how the perimeter changes as you add new tiles to the figure.



Adding these six tiles reduced the perimeter of the figure. Only two of the new tiles have exposed edges, while together they cover ten previously exposed edges in the original figure.
Perimeter = $7 + 1 + 5 + 1 + 3 + 3 + 5 + 5 = 30$.

Find the volume of the rectangular prism.



Volume:
 $7 \text{ in} \times 12 \text{ in} \times 3,5 \text{ in} = 294 \text{ in}^3$