

Lesson 5-6 • Apply Day

Reinforce Understanding

Reading Nets and Solids

I can find the surface area of a solid by using its net.

Worked model

A net is made of 2 identical triangles and 3 rectangles joined edge to edge. What solid does it fold into?

1. Count the pieces. triangles: 2 rectangles: 3
2. Two matching bases mean the solid is a prism, not a pyramid.
3. The two bases are triangles, so the triangles name the solid.
4. Fold it in your mind: five faces, nine edges, six vertices.

Answer: The net folds into a triangular prism.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. (Lesson 5.5) Find the volume of a new prism with dimensions 5 by 3 by 2.

Complete each step, then write the final answer.

1. Base area: $5 \times 3 = \underline{\hspace{1cm}}$.
2. Volume: $15 \times 2 = \underline{\hspace{1cm}}$.
3. Label the answer in $\underline{\hspace{1cm}}$ units.

Answer: $\underline{\hspace{3cm}}$

2. (Lesson 5.5) Find the volume of a new prism with dimensions 6 by 5 by 5.

Complete each step, then write the final answer.

1. Base area: $6 \times 5 = \underline{\hspace{1cm}}$.
2. Volume: $30 \times 5 = \underline{\hspace{1cm}}$.
3. Label the answer in $\underline{\hspace{1cm}}$ units.

Answer: $\underline{\hspace{3cm}}$

3. (Lesson 5.5) Find the volume of a new prism with dimensions 7 by 7 by 3.

Complete each step, then write the final answer.

1. Base area: $7 \times 7 = \underline{\hspace{1cm}}$.
2. Volume: $49 \times 3 = \underline{\hspace{1cm}}$.
3. Label the answer in $\underline{\hspace{1cm}}$ units.

Answer: $\underline{\hspace{3cm}}$