

Find the Area

Use the strategy solve a simpler problem.

Marilyn is going to paint a wall in her bedroom. The wall is 15 feet long and 8 feet tall. The window takes up an area 6 feet long and 4 feet high. How many square feet of the wall will Marilyn have to paint?

Read the Problem	Solve the Problem
What do I need to find? I need to find how many <u>square feet of the wall</u> Marilyn will paint.	First, find the area of the wall. $A = b \times h$ $= 15 \times 8$ $= 120 \text{ square feet}$
What information do I need to use? The paint will cover the wall. The paint will not cover the <u>window</u> . The base of the wall is 15 feet and the height is <u>8 feet</u> . The base of the window is 6 feet and the height is <u>4 feet</u> .	Next, find the area of the window. $A = b \times h$ $= 6 \times 4$ $= 24 \text{ square feet}$
How will I use the information? I can solve simpler problems. Find the area of the <u>wall</u> . Then, find the area of the window. Last, <u>subtract</u> the area of the <u>window</u> from the area of the wall.	Last, subtract the area of the window from the area of the wall. $\begin{array}{r} 120 \\ - 24 \\ \hline 96 \end{array}$ 96 square feet So, Marilyn will paint <u>96 square feet</u> of her bedroom wall.

- 1** Ned wants to wallpaper the wall of his bedroom that has the door. The wall is 14 feet wide and 9 feet high. The door is 3 feet wide and 7 feet high. How many square feet of wallpaper will Ned need for the wall?
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- 2** Nicole has a rectangular canvas that is 12 inches long and 10 inches wide. She paints a blue square in the center of the canvas. The square is 3 inches on each side. How much of the canvas is NOT painted blue?
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