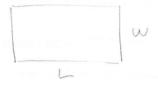
2.Review. 106

The width of a rectangle is 2 inches less than one-half the length. Find the length and the width of the rectangle if the perimeter of the rectangle is 44 inches.

The measure of the length is 16 inches.

The measure of the width is \_\_\_\_ inches.

YOU ANSWERED: 30



"Width is 2" less than \frac{1}{2} length"

W = \frac{1}{2}L - 2

Perimeter is 44 inches

$$HH = 3L+3M$$

stepl: write formula stepl: substitute known numbers.

step 3: directly translate (see above)

$$HH = 2L + 2(\frac{1}{2}L - 2)$$

HH = 2L+ 2.1L- 2.2

$$\frac{48 - 3L}{3}$$

L= 16 inches

$$W = \frac{1}{2}L - 2$$
  
=  $\frac{1}{2}(16) - 2$   
=  $8 - 2$ 

Step 5: Solve.

dist

combine

isolate

subst back