

Name: _____

Applications of Perimeter Homework

- Directions: ① Write down what you know about w , ℓ , and P $w =$ $\ell =$ $P =$
- ② Draw a rectangle and label it using the information you were given
- ③ Plug in what you know (info from step 1) into the perimeter formula
- ④ Combine like terms to simplify if possible, then solve for the variable in the formula (you will be solving for either ℓ or w) \rightarrow that's one part of your answer
- ⑤ Plug in the # you found in step #4 into the remaining side length formula to find the other side length \rightarrow that's the second (and final) part of your answer

$$P = 2(\ell + w)$$

1. The perimeter of a rectangle is 32in. The length is 2in more than the width. Find the length and width.
2. The perimeter of a rectangle is 26in. The width is 3in less than the length. Find the length and width.
3. The perimeter of a rectangle is 36. The length is twice as long as the width. Find the length and width.