A rectangle length is six times its width. Let $w$ denote the width of the rectangle. Write a polynomial to represent the perimeter of the rectangle.

1) Draw a rectangle, and label the sides so the problem will seem more concrete. 1a) Label the vertical sides $w$. 1b) The phrase length is six times the width means $L=6 w$. So label the horizontal sides
 $6 w$.
2) Now go around the shape, and ada the terms to get the whole perimeter.

$$
\text { Perimeter }=w+6 w+w+6 w=14 w
$$

Note: Don't forget that $w$ really means $1 w$, so that we have $1 w+6 w+1 w+6 w=14 w$

