2.29.16   **Slot Quiz Tomorrow**

$\ell = 2 \quad w$ ~~First~~

The length of a rectangle is twice its width. If the perimeter is 72 ft, what is the area? Put the appropriate markings on the rectangle below.

$\ell = \boxed{2w} = 2(12) \boxed{\ell = 24ft}$

$w = \boxed{w = 12ft}$

$P = 72 ft$

$P = 2\ell + 2w$

$72 = 2(2w) + 2w$

$72 = 4w + 2w$

$\dfrac{72}{6} = \dfrac{6w}{6}$

$\boxed{12 ft = w}$

$A = \ell \cdot w$

$A = 24 \cdot 12$

$\boxed{A = 288 ft^2}$

24ft

12ft

A=288ft²