2.22.16

$\ell = w + 3$

First

The length of a rectangle is 3 cm more than the width. If its' perimeter is 78 cm, what is its' area? Put the appropriate markings on the rectangle below.

$P = 2\ell + 2w \quad A = \ell \cdot w$

$P = 78cm$

$\ell = w + 3$ $\boxed{\ell = 21cm}$

$w = \boxed{w = 18cm}$

$78 = 2(w+3) + 2w$

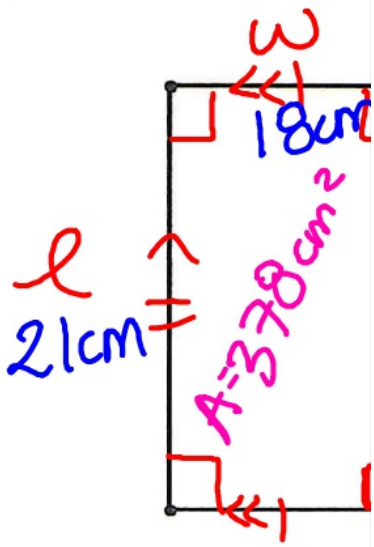
$78 = 2w + 6 + 2w$

$78 = 4w + 6$

$-6 \quad -6$

$\frac{72}{4} = \frac{4w}{4}$

$18_{cm} = w$



$A = (18)(21)$

$\boxed{A = 378cm^2}$