Perimeter and Area

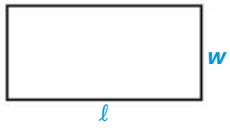
TEKS 6.8.B

The **perimeter** P of a figure is the distance around it.

Perimeter of a Square

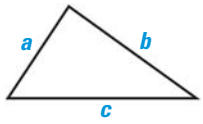
$P = s + s + s + s$
$= 4s$

Perimeter of a Rectangle



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

Perimeter of a Triangle



$P = a + b + c$

EXAMPLE **Find the perimeter of the figure.**

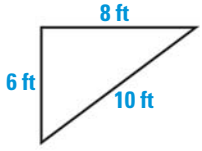
a. Square

$P = 4s$
$= 4(9)$
$= 36$ cm

b. Rectangle

$P = 2\ell + 2w$
$= 2(11) + 2(7)$
$= 22 + 14 = 36$ m

c. Triangle



$P = a + b + c$
$= 6 + 8 + 10$
$= 24$ ft

The **area** A of a figure is the number of square units enclosed by the figure.

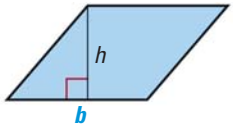
Area of a Square

$A = s^2$

Area of a Rectangle

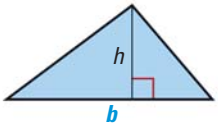
$A = \ell w$

Area of a Parallelogram



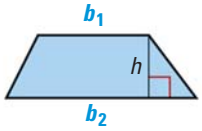
$A = bh$

Area of a Triangle



$A = \frac{1}{2}bh$

Area of a Trapezoid



$P = \frac{1}{2}(b_1 + b_2)h$