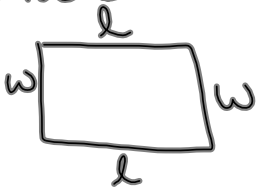
5-1 Perimeter and Area

Perimeter – the distance around an object

formula – an equation that shows a relationship among certain quantities

Rectangle $P = 2l + 2w$



Square $P = 4s$

Triangle $P = s_1 + s_2 + s_3$

Area = amount to cover the inside

Rectangle $A = lw$

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

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

$$P = 2l + 2w$$

$$42 = 2l + 2(10)$$

$$42 = 2l + 20$$

$$-20 \qquad -20$$

$$22 = 2l$$

$$\frac{22}{2} = \frac{2l}{2}$$

$$11 = l$$

D	U
·2	−20
+20	÷2

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

$\frac{1}{2}(12)(5\frac{1}{4})$ $= \frac{12(5.25)}{2}$

$A = \frac{1}{2}(12)(5.25)$ $= \frac{63}{2}$

$A = 31.5$ sq. in $= 31.5$ sq. in

$31.5\ in^2$

Rectangle $A = lw$

$\frac{800}{120} = \frac{120w}{120}$

$6\frac{2}{3} = w$ in

D | W
·120 | ÷120

Triangle

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

$69 = \frac{1}{2}(23)h$

$\frac{69}{11.5} = \frac{11.5}{11.5}h$

$6 = h$

$2 \cdot 69 = \frac{23h}{2} \cdot 2$

$\frac{138}{23} = \frac{23}{23}h$

$6 = h$