

**Stick Quiz**

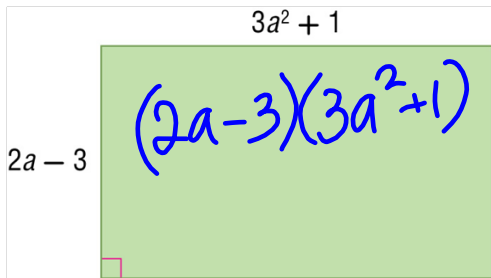
**T8-2**

Find the products using distribution

1.  $(3w + 7)(2w + 5)$

2.  $(5b - 3)(5b^2 + 3b - 2)$

3. Write an expression for the area of the rectangle.

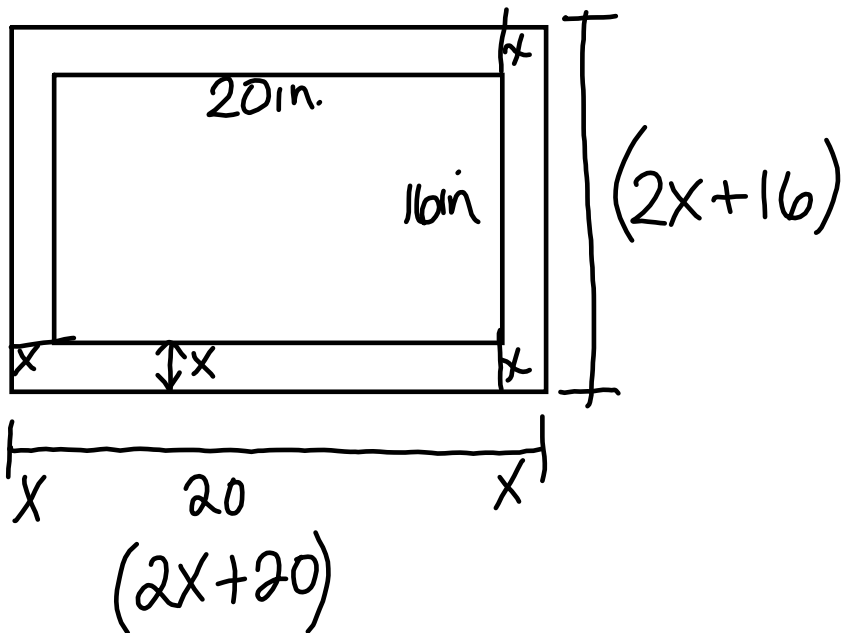


- 1.  $6w^2 + 29w + 35$
- 2.  $25b^3 - 19b + 6$
- 3.  $6a^3 - 9a^2 + 2a - 3$

$$\begin{aligned}
 & \underline{(5b - 3)}(5b^2 + 3b - 2) \\
 & + 5b(5b^2 + 3b - 2) - 3(5b^2 + 3b - 2) \\
 & 5b(5b^2) + 5b(3b) + 5b(-2) - 3(5b^2) - 3(3b) - 3(-2) \\
 & 25b^3 + 15b^2 - 10b \\
 & \quad - 15b^2 - 9b + 6 \\
 \hline
 & 25b^3 \quad - 19b + 6
 \end{aligned}$$

$$\begin{aligned}
 \text{31. } & 7(4+10-9) + 2 = 2(14-2) + 13 \\
 & 7(t^2 + 5t - 9) + t = t(7t - 2) + 13 \\
 & 7t^2 + 35t - 63 + t = 7t^2 - 2t + 13 \\
 & \begin{array}{r} 7t^2 + 36t - 63 = 7t^2 - 2t + 13 \\ -7t^2 \qquad \qquad \qquad -7t^2 \\ \hline 36t - 63 = -2t + 13 \\ +2t \qquad \qquad \qquad +2t \\ \hline 38t - 63 = 13 \\ \qquad \qquad \qquad +63 \qquad +63 \\ \hline 38t = 76 \\ \frac{38t}{38} = \frac{76}{38} \\ t = 2 \end{array}
 \end{aligned}$$

#7



## LESSON

## 8-3

## Multiplying Polynomials

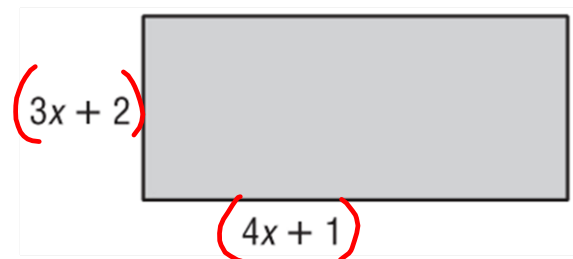
I can... multiply polynomials using the distributive & double distributive method.

$$\text{Area} = \text{base} \cdot \text{height}$$

$$\text{units}^2 \quad \text{units}^2$$

$$\text{Perimeter} = \text{add all sides}$$

$$\text{units}$$



Area:

$$(3x + 2)(4x + 1)$$

$$3x(4x + 1) + 2(4x + 1)$$

**Answer:**  $12x^2 + 11x + 2 \text{ units}^2$

P=all sides added

T8-1

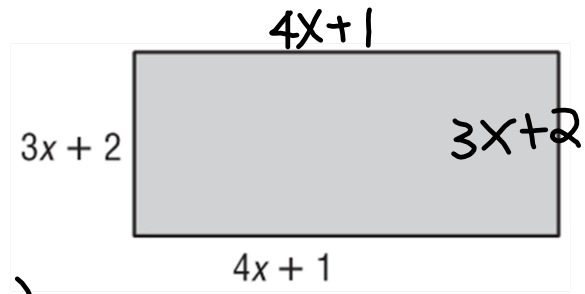
$$2(b) + 2(h)$$

$$2(4x+1) + 2(3x+2)$$

$$8x + 2 + 6x + 4$$

$$14x + 6$$

perimeter

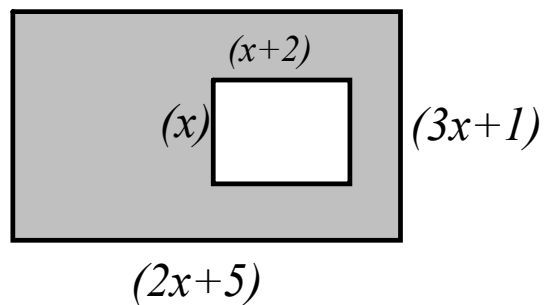


Find the area of the Large rectangle.  
Find the area of the small rectangle.

$$6x^2 + 17x + 5$$

$$-x^2 + 2x$$

$$5x^2 + 15x + 5$$



You try:

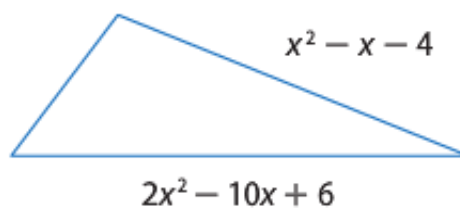
1.  $3(a + 2) + 5 = 2a + 4$



T8-1

*The perimeter is a total of  $3x^2 - 7x + 2$ .*

Find the length of the missing side.



# Homework 8.3

8.3 pg 483 #13-31o – *double distribute*