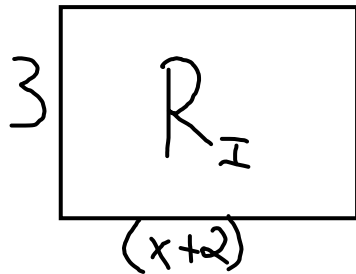


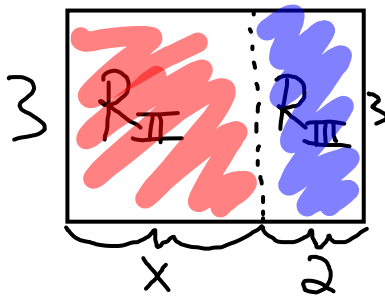
## 2.6. Distributive Property

March 10, 2004

find the Area of Rectangle whose width is 3 and length is  $(x+2)$ :  $A = l \cdot w$



$$A_{R_I} = (x+2) \cdot 3 = \underline{\underline{3(x+2)}}$$



$$A_{R_{II}} = x \cdot 3 = \underline{\underline{3x}}$$

$$A_{R_{III}} = 2 \cdot 3 = \underline{\underline{6}}$$

$$A_{R_I} = A_{R_{II}} + A_{R_{III}}$$

$$3(x+2) = 3x + 6$$

\* We took the outside # (3) & multiplied by All the Inside Stuff.

## The Distributive Property

The product of "a" and "(b+c)":

$$a(b+c) = ab + ac$$

$$(b+c)a = ba + ca$$

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$$a(b-c) = ab - ac$$

$$(b-c)a = ba - ca$$

$$2(x+5) = 2(x) + 2(5) = \underline{\underline{2x+10}}$$

$$(1+2n)8 = 8(1) + 8(2n) = \underline{\underline{8+16n}}$$

---

$$3(1-y) = 3(1) - 3(y) = \underline{\underline{3-3y}}$$

$$(2x-4)\frac{1}{2} = \frac{1}{2}(2x) - \frac{1}{2}(4) = \underline{\underline{x-2}}$$

Negative:

$$-3(x+4) = -3(x) + -3(4) = \frac{-3x + -12}{\text{or}} \\ \underline{-3x - 12}$$

$$-1(6-3x) = -1(6) - -1(3x) = -6 + +3x \\ = \underline{\underline{-6 + 3x}}$$

$$-(6-3x)$$

$$-(4x+5) = -4x-5$$

O.T.L.

① pg 103: 13, 15

pg 104: 17, (21-25) 28, 29, 33,

37, 39, 40, 41, 45, 49, 52,  
56, 65, 67.