

Pg. 96-97; 17-45 (63, 55)

17)  $-28$

19)  $-12.6$

21)  $\frac{4}{3}$

23)  $-216$

25)  $-49$

27)  $-54$

29)  $97.2$

31)  $-\frac{3}{2}$

33)  $-7x$

35)  $-5a^2$

37)  $-10r^2$

39)  $-2x^2$

41)  $-48$

43)  $-147$

45)  $41$

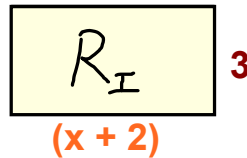
55) About 150 ft.

~~$\frac{2}{3}$~~

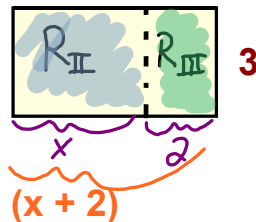
$\frac{2}{3}$

## 2.6 Distributive Property Sept. 29, 2006

ex| Find the Area of a Rectangle  $A_R = l \cdot w$   
whose length is  $(x + 2)$  and width is  $3$ .



$$\begin{aligned} A_{R_I} &= (x + 2) \cdot 3 \\ &= \underline{\underline{3(x + 2)}} \end{aligned}$$



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

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

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

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

\* We took the Outside Number & Multiplied it by All the Stuff inside.

## Distributive Property

The Product of 'a' and (b + c) :

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

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

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

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

ex1

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

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

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

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

## Distributive Property with Negatives:

$$\begin{aligned} -3(x+4) &= -3(x) + -3(4) \\ &= \underline{-3x + -12} \\ &\quad \text{or} \\ &= \underline{\underline{-3x - 12}} \end{aligned}$$

$$\begin{aligned} -3(x-4) &= -3(x) - -3(4) \\ &= -3x + +12 = \underline{\underline{-3x + 12}} \end{aligned}$$

$$\begin{aligned} -1(6-3x) &= -1(6) - -1(3x) \\ &= -6 + +3x \\ &= \underline{\underline{-6 + 3x}} \end{aligned}$$

# O.T.L.

① Pg. 103: 13, 15

② Pg. 104: 17, 21, 25, 28, 29,  
33, 37, 39, 40, 41,  
45, 49, 52, 56, 65, 67

③ Chapter<sup>(2)</sup> Test Thursday