

The Distributive Property:

$$3(4x - 5)$$

$$3 \cdot 4x \quad 3 \cdot -5$$

$$\boxed{12x - 15}$$

Multiply to all
the terms in
the ()

Simplify using the distributive Property:

a) $5(x + 2)$

$$\boxed{5x + 10}$$

b) $3(2x + 4)$

$$\boxed{6x + 12}$$

c) $2(3.6y + 5)$

$$2 \cdot 3.6y$$

$$\boxed{7.2y + 10}$$

d) $-6(g + 2h)$

$$\boxed{-6g - 12h}$$

e) $-9(5c + 3d)$

$$\boxed{-45c - 27d}$$

f) $-8(3.4w + 6)$

$$-8 \cdot 3.4$$

$$\boxed{-27.2w - 48}$$

g) $-4\left(\frac{2}{5}m - 9p\right)$

$$-4 \cdot \frac{2}{5}m \quad -4 \cdot -9p$$

$$\boxed{-\frac{8}{5}m + 36p}$$

h) $\frac{3}{8}(16m - 9p)$

$$\frac{3}{8} \cdot 16m \quad \frac{3}{8} \cdot -9p$$

$$\boxed{6m - \frac{27}{8}p}$$

i) $\frac{1}{4}(20f - 10)$

$$5f - \frac{10}{4}$$

$$\boxed{5f - 2.5}$$

Notes 3-3

Int 1

Distributive Property

Unit 3

$$j) 4(8r - 5) - 32$$

$$32r - 20 - 32$$

$$32r - 52$$

$$k) -3(-2w + 9r) + r$$

$$6w - 27r + 1r$$

$$6w - 26r$$

$$l) 5 + 3(-2x + 7)$$

$$5 - 6x + 21$$

$$26 - 6x$$

$$-6x + 26$$

$$m) 14 - 2(x + 6)$$

$$14 - 2x - 12$$

$$-2x + 2$$

$$n) 8 - 4(2x + 8)$$

$$8 - 8x - 32$$

$$-8x - 24$$

p) **SUNDAES** Carmine bought 5 ice cream sundaes for his friends. If each sundae costs \$4.95, how much did he spend? Justify your answer by using the Distributive Property.

$$5(5 - .05)$$

$$\$25 - .25$$

$$\boxed{\$24.75}$$