

1.4 Distributive Property

Ex 1) Simplify using the distributive property.

$$3(x + 2)$$

$$\boxed{3x + 6}$$

$$7(3w - 5)$$

$$\boxed{21w - 35}$$

$$(n + 6)n$$

$$\boxed{n^2 + 6n}$$

$$-2x(x + 7)$$

$$\boxed{-2x^2 - 14x}$$

$$(5 - y)(-3y)$$

$$\boxed{3y^2 - 15y}$$

$$-(2x - 11)$$

$$\boxed{-2x + 11}$$

Ex 2) Simplify each expression.

$$2(6x - 4) + x$$

$$12x - 8 + x$$

$$\boxed{13x - 8}$$

$$-2(m + 5) - 4$$

$$-2m - 10 - 4$$

$$\boxed{-2m - 14}$$

$$x - 3(x - 4)$$

$$x - 3x + 12$$

$$\boxed{-2x + 12}$$

Your mom is paying for you and three of your friends to go to Alamo Drafthouse for dinner and a movie. Each one of you purchased a movie ticket, slice of pizza, candy bar, and drink. Write and solve an expression using distributive property that would tell your mom how much you spent.

Item	Price (\$)
Ticket	12.00
Pizza Slice	6.50
Drink	2.25
Candy	2.00

$$4(12 + 6.50 + 2.25 + 2)$$

Homework: