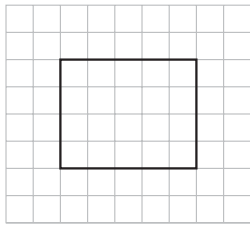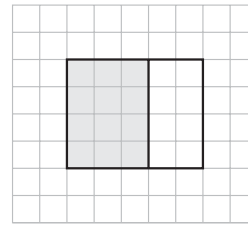# Area and the Distributive Property

Suppose you separate a rectangle into two smaller rectangles. The area of the large rectangle is equal to the sum of the areas of the two small rectangles. You can use the Distributive Property to break apart facts to find the product.

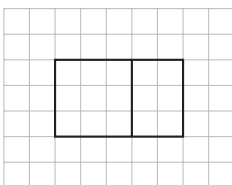|	
Write the multiplication fact that represents the area of the large rectangle. $4 \times 5 = 20$	Write multiplication facts that represent the areas of each of the smaller rectangles. $4 \times 3 = 12 \qquad 4 \times 2 = 8$ $12 + 8 = 20$

You can write an equation to show that the area of the large rectangle is equal to the sum of the areas of the two small rectangles.

$4 \times 5 = 4 \times (3 + 2) = (4 \times 3) + (4 \times 2)$
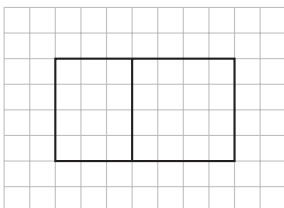
Write the equation that represents the picture.

1.

___3___ $\times$ _____ = _____ $\times$ (___2___ + _____) =

(___3___ $\times$ _____) + (_____ $\times$ ___3___)

2.

_____ $\times$ ___7___ = _____ $\times$ (_____ + ___4___) =

(_____ $\times$ ___3___) + (___4___ $\times$ _____)