Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_\_ A

**The Distributive Property,** HW #\_\_\_\_\_\_\_\_\_\_\_\_\_

**Directions: Use the distributive property to simplify each expression.**

  

(\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_) + (\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_) (\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_) + (\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_)

 \_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_

  

(\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_) + (\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_) (\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_) + (\_\_\_\_\_\_\_ x \_\_\_\_\_\_\_)

 \_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_

 = \_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_

**Directions: Create an expression that is equivalent according to the distributive property.**

**55 + 66 49 + 63**

\_\_\_\_\_\_\_(\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_) \_\_\_\_\_\_\_(\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_)

**40 + 25 63 + 15**

\_\_\_\_\_\_\_(\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_) \_\_\_\_\_\_\_(\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_)

**Challenge Question:**

The rectangle below represents Chris and Tara’s backyard. They have a garden on the right side. Based on the dimensions shown. Write an expression to determine the total area of the whole backyard.

8

5

15

Expression:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Determine the total area:

Answer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_