

Name: ..... Class: .....



## Multiply using the distributive property

Use the distributive property to find the product of the following expressions.

a.  $2 \times 55 =$  \_\_\_\_\_

b.  $7 \times 67 =$  \_\_\_\_\_

c.  $5 \times 98 =$  \_\_\_\_\_



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## Multiply using the distributive property

Use the distributive property to find the product of the following expressions.

a.  $2 \times 55 =$  \_\_\_\_\_

First of all, let's decompose 55 into its corresponding place values

$$2 \times 55 = 2 \times (50 + 5)$$

Now, apply the distributive property.

$$2 \times 55 = 2 \times (50 + 5)$$

$$= (2 \times 50) + (2 \times 5)$$

$$= 100 + 10$$

$$= 110$$

$$\text{So, } 2 \times 55 = 110$$

b.  $7 \times 67 =$  \_\_\_\_\_

First of all, let's decompose 67 into its corresponding place values

$$7 \times 67 = 7 \times (60 + 7)$$

Now, apply the distributive property.

$$7 \times 67 = 7 \times (60 + 7)$$

$$= (7 \times 60) + (7 \times 7)$$

$$= 420 + 49$$

$$= 469$$

$$\text{So, } 7 \times 67 = 469$$

c.  $5 \times 98 =$  \_\_\_\_\_

Let's first of all introduce the minus sign by subtracting 2 from 100

$$\text{So, } 5 \times 98 = 5 \times (100 - 2)$$

Now, apply the distributive property.

$$5 \times 98 = 5 \times (100 - 2)$$

$$= (5 \times 100) - (5 \times 2)$$

$$= 500 - 10$$

$$= 490$$

$$\text{So, } 5 \times 98 = 490$$

