## **Multiply 2-Digit Factors Using the Distributive Property**

> WORKED EXAMPLE

> TRY IT

> PRACTICE

**SIEP 1** Estimate the product.

47 × 88

**SIEP 1** Estimate the product.

$$52 \times 36$$

Estimate: 50 × 40 II 2000

**SIEP1** Estimate the product.

Estimate:

×

11

SIEP 2 Rename both factors.

$$52 \times 36 = (50 + 2) \times (30 + 6)$$

$$52 \times 36 = (50 \times 30) + (50 \times 6) + (2 \times 30) + (2 \times 6)$$

**STEP 3** Find the partial products.

$$50 \times 50 = 1500$$
 $50 \times 6 = 300$ 
 $2 \times 30 = 60$ 
 $2 \times 6 = 12$ 

STEP 4 Add the partial products.

$$50 \times 30 = 1500$$
  
 $50 \times 6 = 300$   
 $2 \times 30 = 60$   
 $2 \times 6 = 12$ 

ls your answer reasonable? yes

SIEP Rename both factors.

STEP 2 Rename both factors.

STEP 3 Find the partial products.

47 × 88 = (\_\_ × \_\_) + (\_\_ × \_\_) + 47 × 88 = (\_\_+ \_\_) × (\_\_+ \_\_ × \_ ) + ( \_ × \_

**SIEP3** Find the partial products.

SIEP Add the partial products.

**STEP Add the partial products.** 

Is your answer reasonable?

47 × 88 =

ls your answer reasonable?

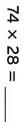
$$61 \times 69$$

## $38 \times 73$

## Ticket

> Find the product.

TOPIC :



How is splitting two 2-digit similar to splitting rectangles to Splitting two 2-digit factors is multiply because rectangles to multiply? factors similar to splitting

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Is your answer reasonable?

 $38 \times 73 =$ 

Is your answer reasonable?

 $61 \times 69 =$