

Name: \_\_\_\_\_

## More Multiplication

You know how to multiply  $3 \times 40$ .

$$3 \times 40 = 3 \times (4 \times 10) = (3 \times 4) \times 10 = 12 \times 10 = 120$$

Now, suppose I want to multiply  $30 \times 40$ . What do I do?

$$30 \times 40 = (3 \times 10) \times (4 \times 10) \quad \text{Why?}$$

$$= (3 \times 4) \times (10 \times 10) \quad \text{Why?}$$

$$= 12 \times 100 = 1,200 \quad \text{Why?}$$

Let's do one more:

$$50 \times 60 = (5 \times 10) \times (6 \times 10) = (5 \times 6) \times (10 \times 10) = 30 \times 100 = 3,000$$

Your turn:

$$50 \times 50 =$$

$$40 \times 60 =$$

$$20 \times 50 =$$

$$30 \times 80 =$$

$$20 \times 90 =$$

$$40 \times 50 =$$

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## More Multiplication

How about  $3 \times 400$ ?

$$3 \times 400 = 3 \times (4 \times 100) = (3 \times 4) \times 100$$

$$= 12 \times \underline{100}$$

$$= \underline{1,200}$$

Your turn again:

$$4 \times 600 =$$

$$3 \times 800 =$$

$$300 \times 7 =$$

$$500 \times 8 =$$

$$2 \times 700 =$$

$$600 \times 5 =$$

Review:

$$4 \times 60 =$$

$$50 \times 70 =$$

$$500 \times 2 =$$

$$80 \times 50 =$$