# Multiplying 2-Digit by 2-Digit Numbers

Find  $43 \times 26$ .

## Step 1:

Multiply by the ones. Regroup if necessary.

#### Step 2:

Multiply by the tens. Regroup if necessary.

### Step 3:

Add the partial products.

## What You Think

 $6 \times 3$  ones = 18 ones Regroup 18 ones as 1 ten and 8 ones.

 $6 \times 4$  tens = 24 tens 24 tens + 1 ten = 25 tens Regroup 25 tens as 2 hundreds and 5 tens.

### What You Think

 $20 \times 3$  ones = 60 ones Regroup 60 ones as 6 tens.

 $20 \times 4$  tens = 80 tens Regroup 80 tens as 8 hundreds.

### What You Think

 $6 \times 43 = 258$  $20 \times 43 = 860$ 

## What You Write

Find the product.

## Multiplying 2-Digit by 2-Digit Numbers

- **9.** To pay for a sofa, Maddie made a payment of 64 dollars each month for one year. How much did the sofa cost?
- 10. Geometry To find the volume of a box, you multiply the length times the width times the height. What is the volume, in cubic feet, of a box that is 3 ft long, 8 ft wide, and 16 ft high?
- 11. Estimation Katie is in charge of buying juice for the teachers' breakfast party. If one teacher will drink between 18 and 22 ounces of juice, and there are 32 teachers, which is the best estimate for the amount of juice Katie should buy?
  - A about 200 ounces
  - B about 400 ounces
  - C about 600 ounces
  - D about 800 ounces
- 12. Explain It Is 7,849 a reasonable answer for  $49 \times 49$ ? Why or why not?