## **Choose a Multiplication Method**

Estimate. Then use regrouping to find  $47 \times 89$ .

**Step 1** Estimate the product.

$$50 \times 90 = 4,500$$

**Step 2** Multiply the 9 ones by the 7 ones. Regroup the 63 ones as 6 tens 3 ones.

$$\begin{array}{r} 89 \\ \times 47 \\ \hline 3 \end{array}$$

Step 3 Multiply the 8 tens, or 80, by the 7 ones, or 7. Add the regrouped tens. Regroup the 62 tens as 6 hundreds 2 tens.

**Step 4** Multiply the 9 ones by the 4 tens, or 40. Regroup the 36 tens as 3 hundreds 6 tens.

Step 5 Multiply the 8 tens, or 80, by the 4 tens, or 40. Add the regrouped tens. Regroup the 35 hundreds as 3 thousands 5 hundreds.

Step 6 Add the partial products.

So,  $47 \times 89 = 4,183$ . Since 4,183 is close to the estimate of 4,500, it is reasonable.

Estimate. Then choose a method to find the product.

- 1. Estimate: \_\_\_\_\_ 4. Estimate: \_\_\_\_ 4. Estimate: \_\_\_\_