Multiply by Tens

One section of seating at an arena has 40 rows. Each row has 30 seats.
How many seats in all are in that section?

Multiply. 30 × 40

Step 1 Think of each factor as a multiple
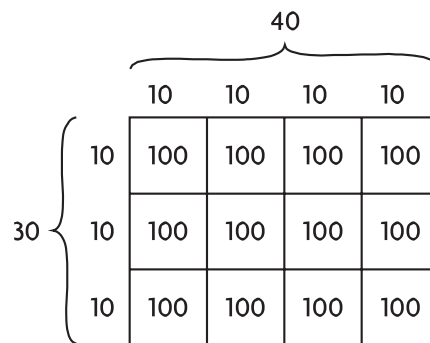of 10 and as a repeated addition.

$$40 = \underline{4} \times \underline{10} \text{ or } \underline{10} + \underline{10} + \underline{10} + \underline{10}$$

$$30 = \underline{3} \times \underline{10} \text{ or } \underline{10} + \underline{10} + \underline{10}$$

Step 2 Draw a diagram to show
the multiplication.

Step 3 Each small square in the diagram
shows 10 × 10, or __100__. Count the
squares.
There are __12__ squares of __100__.

	40			
	10	10	10	10
10	100	100	100	100
10	100	100	100	100
10	100	100	100	100

30 { (rows at left: 10, 10, 10)

Step 4 Use patterns and mental math to
find 12 × 100.

$$12 \times 1 = \underline{12}$$
$$12 \times 10 = \underline{120}$$
$$12 \times 100 = \underline{1{,}200}$$

There are __1,200__ seats in that section.

Choose a method. Then find the product.

1. 20 × 90 = _____   **2.** 40 × 40 = _____   **3.** 60 × 70 = _____

4. 50 × 30 = _____   **5.** 80 × 60 = _____   **6.** 90 × 40 = _____