

# 13

# Multiply Greater Numbers

SOL 3.10

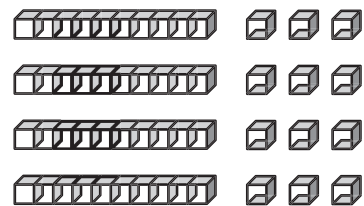
## Example

Maggie has 13 DVDs on each of four shelves. How many DVDs does Maggie have in her collection?

- A 43
- B 48
- C 52**
- D 56

## Thinking It Through

**Ask** Can I make this problem easier? You can break a multiplication problem into two simpler multiplication problems. How can I do that? Since  $13 = 10 + 3$ , multiply 10 and 3 each by 4.



$$10 \times 4 = 40$$

$$3 \times 4 = 12$$

Add the products:  $40 + 12 = 52$ .

So, Maggie has 52 DVDs in her collection, *answer C*.

## Example

What is  $47 \times 3$ ?

- A 121
- B 130
- C 131
- D 141**

## Thinking It Through

**Solve** You can multiply the ones and then the tens.

Multiply the ones:  $7 \times 3 = 21$ . Write the 1 and regroup the 2 tens.

Multiply the tens:  $4 \times 3 = 12$ . Add the 2 tens:  $12 + 2 = 14$ .

The product is *141*, *answer D*.

$$\begin{array}{r} \overset{2}{4}7 \\ \times 3 \\ \hline 1 \\ \overset{2}{4}7 \\ \times 3 \\ \hline 141 \end{array}$$

## Review

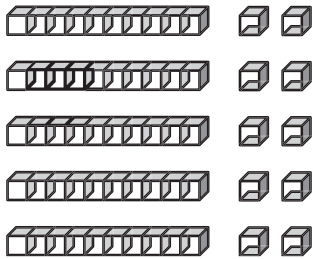
- You can multiply a two-digit number by a one-digit number by multiplying from right to left.
- You could also rewrite the two-digit number as the sum of two numbers. To multiply  $26 \times 5$ , rewrite 26 as  $20 + 6$  and multiply each addend by 5:  $26 \times 5 = (20 \times 5) + (6 \times 5) = 100 + 30 = 130$ .

# Multiply Greater Numbers

# 13

**DIRECTIONS** Read and solve each question. Then circle the letter of the best answer.

1 What is  $12 \times 5$ ?



- A 50
- B 52
- C 55
- D 60

2 Which is another way to write  $67 \times 2$ ?

- F  $(60 \times 2) + (7 \times 2)$
- G  $(6 \times 2) + (7 \times 2)$
- H  $(60 + 2) \times (7 \times 2)$
- J  $(60 \times 2) \times (7 \times 2)$

3

$$\begin{array}{r} 84 \\ \times 3 \\ \hline \end{array}$$

- A 242
- B 252
- C 262
- D 272



Multiply the ones. Then multiply the tens.

4 There are 4 classes that are going to visit Montpelier, the home of James Madison. If each class has 27 students, how many students will visit Montpelier?

- F 88
- G 98
- H 108
- J 116