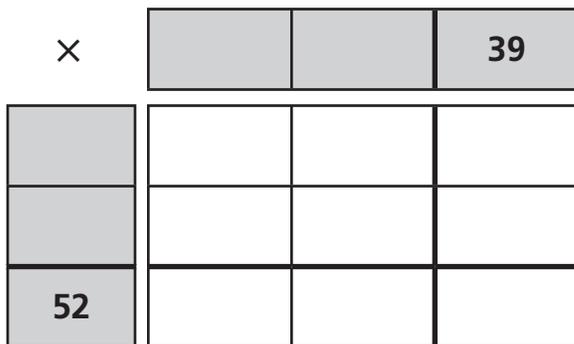


Multiplying Multi-Digit Numbers

Complete the multiplication sentences after splitting and completing an area model or completing a puzzle.

1



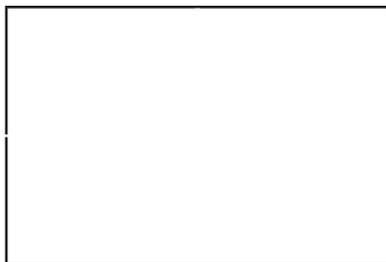
$39 \times 52 = \underline{\hspace{2cm}}$

2



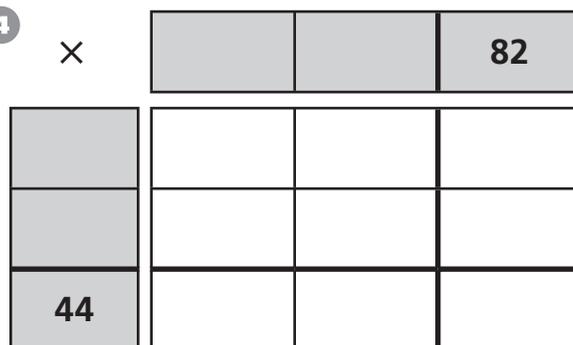
$61 \times 48 = \underline{\hspace{2cm}}$

3



$54 \times 76 = \underline{\hspace{2cm}}$

4

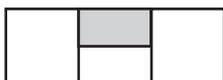


$82 \times 44 = \underline{\hspace{2cm}}$



Test Prep

5 Which fraction represents the shaded part?



- A. $\frac{1}{3}$
- B. $\frac{1}{4}$
- C. $\frac{2}{6}$
- D. $\frac{1}{6}$

6 Which fraction represents the shaded part?



- A. $\frac{2}{3}$
- B. $\frac{2}{5}$
- C. $\frac{2}{8}$
- D. $\frac{1}{3}$

Writing Vertical Records

1 Fill in the puzzle. Then complete the multiplication records.

×	30	3	33
50			
4			
54			

$$\begin{array}{r} 30 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 50 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ \times 54 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ \times 4 \\ \hline \end{array}$$

Write the partial products on the area models. Then complete the multiplication records.

2

	60	5	
80			
7			

$$\begin{array}{r} 65 \\ \times 87 \\ \hline \end{array}$$

3

	40	8	
70			
6			

$$\begin{array}{r} 48 \\ \times 76 \\ \hline \end{array}$$


Test Prep

4 Write a word problem that can be represented by the number sentence $19 \times 36 = \underline{\quad?}$. Then solve your problem.

Using Square Number Differences

Complete the tables.

1

a	7	9		40	
a^2			144		2,500

2

b	8		12	15	
$b^2 - 1$		99			899

3

c	4				11
$(c + 2) \times (c - 2)$		5		396	
$c^2 - 4$			21		



Test Prep

- 4 A certain pair of numbers have a sum of 25 and a difference of 9. The numbers must be:
- A. 5, 5 C. 25, 9
B. 17, 8 D. 9, 16
- 5 The square of one number is added to the square of another number. The sum is 41. The numbers could be:
- A. 6, 2 C. 5, 4
B. 40, 1 D. 3, 5

Multiplying Large Numbers

Complete the area model, puzzle, and record.

1

	200	60	7
40			
8			

$267 \times 48 = \underline{\hspace{2cm}}$

2

×	200	40	8	248
				248 ×
				248 ×
62				248 × 62

	→	
	→	
62	→	

2 4 8	×	6 2



Test Prep

3 The Gomez family is planning a party at a restaurant. They are inviting 51 adults and 26 children. If the cost is \$49 per adult and \$24 per child, how much should they expect to spend on the party? Explain how you found your answer.
