Name _____ Date _____ **Chapter 5 Test**

Write the correct answer.

1. Write the multiplication sentence that is represented by the area model.

	50	8
70	3,500	560
4	200	32

Use the form:
factor × factor = product

_____

2. Fill in the missing numbers in the area model. Write the multiplication sentence represented by the model.

	300	10	6
40		400	
8	2,400		48

_____

3. Write a multiplication sentence that meets these conditions:
   - The product is between 5,000 and 5,500.
   - Each factor is between 70 and 80 and is an even number.
   - Neither factor has a zero in the ones place.

_____

_____

_____

4. Complete the multiplication puzzle and write the product.

×	**60**	**2**	**62**
90			
7		**14**	
97			

For 5–6, use the multiplication puzzle.

×	19
60	**E**
3	**F**
63	**G**

5. Write the values for partial products **E** and **F**.

E = _____

F = _____

6. Write the value of the product **G**.

_____

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7 Write the record that represents the completed multiplication puzzle.

×	400	20	1	421	
20					421 × 20
6					421 × 6
26				■	

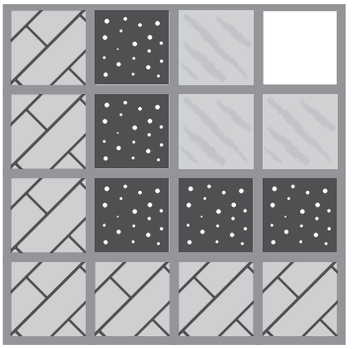
8 What is the value of A in the multiplication sentence if $x = 45$?

$(x + A)\ (x - A)\ = 2{,}009$

_____

_____

For 9–10 use the pattern below. Each group of differently marked small square tiles forms a section of a wall.



9 If the pattern is continued, how many square tiles will be needed for the tenth section?

_____

10 Complete the expression for T, the number of square tiles that are needed for the nth section.

$T = 2n -$ _____

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