

Concept Check-In

Unit 5 Concept 2

Name _____ Date _____

Instructions: Write or circle your answers.

1. Which equation would be best to include in an explanation of the Commutative Property of Multiplication?

- A. $3 \times 5 = 5 \times 3$
- B. $4 \times 16 = (4 \times 11) + (4 \times 5)$
- C. $(6 \times 4) \times 2 = 6 \times (4 \times 2)$
- D. $5 \times 1 = 5$

2. Fill in the blanks below with the correct answer choice from each group.

A.	<table><tr><td>31×81</td></tr><tr><td>18×13</td></tr></table>	31×81	18×13	B.	<table><tr><td>234</td></tr><tr><td>432</td></tr></table>	234	432
31×81							
18×13							
234							
432							

Hoda knows that $13 \times 18 = 234$. By applying the Commutative Property of Multiplication, Hoda can determine that **A.** _____ is equal to **B.** _____.

3. Fill in the blanks below with the correct answer choice from each group.

A.	<table><tr><td>0</td></tr><tr><td>1</td></tr><tr><td>7</td></tr></table>	0	1	7	B.	<table><tr><td>0</td></tr><tr><td>1</td></tr><tr><td>7</td></tr><tr><td>49</td></tr></table>	0	1	7	49
0										
1										
7										
0										
1										
7										
49										

The product of 7 and **A.** _____ is equal to **B.** _____ because of the Identity Property of Multiplication.

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4. Examine the pattern of products shown in the table.

Products
$1 \times 10 = 10$
$5 \times 10 = 50$
$9 \times 10 = 90$
$13 \times 10 = 130$
$17 \times 10 = 170$
$21 \times 10 = 210$

Which number is the result of multiplying a single-digit number by 10?

- A. 14
- B. 80
- C. 400
- D. 810

5. Examine the pattern of products shown in the table.

Products
$2 \times 100 = 200$
$8 \times 100 = 800$
$14 \times 100 = 1,400$
$20 \times 100 = 2,000$

Which statement *best* describes how to find the product when a number is multiplied by 100?

- A. Add one zero to the left of the number.
- B. Add one zero to the right of the number.
- C. Add two zeros to the right of the number.
- D. Add two zeros to the left of the number.

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6. Consider this table of products.

Products
$6 \times 1,000 = \Delta$
$9 \times 1,000 = 9,000$
$17 \times 1,000 = 17,000$
$30 \times 1,000 = 30,000$

Based on the pattern in the table, the Δ in the first equation should be replaced by _____.

7. Which equation would be best to include in an explanation of the Associative Property of Multiplication?
- A. $(9 \times 12) \times 0 = 0$
 - B. $(4 \times 6) \times 1 = 4 \times 6$
 - C. $(3 \times 7) \times 2 = 3 \times (7 \times 2)$
 - D. $(11 \times 8) \times 9 = 9 \times (11 \times 8)$
8. Which equation shows how to apply the Associative Property of Multiplication to determine the value of $3 \times (2 \times 10)$?
- A. $5 \times 10 = 50$
 - B. $6 \times 10 = 60$
 - C. $3 \times 20 = 320$
 - D. $3 \times 12 = 36$

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9. Use the Associative Property of Multiplication to solve the equation.

$$6 \times (3 \times 100) = ?$$

10. Fill in the blanks below with the correct answer choice from each group.

A.

11
30

B.

1,100
3,000
11,000
30,000

Kareem is solving the equation $6 \times (5 \times 1,000) = \Delta$.

To solve the equation, Kareem can apply the Associative Property of

Multiplication and multiply A. _____ by 1,000, which

is equal to B. _____.