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.

31×81
18×13

   B.

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.

0
1
7

   B.

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 × 10 = 10
5 × 10 = 50
9 × 10 = 90
13 × 10 = 130
17 × 10 = 170
21 × 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 × 100 = 200
8 × 100 = 800
14 × 100 = 1,400
20 × 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 × 1,000 = Δ
9 × 1,000 = 9,000
17 × 1,000 = 17,000
30 × 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 × 12) × 0 = 0

B. (4 × 6) × 1 = 4 × 6

C. (3 × 7) × 2 = 3 × (7 × 2)

D. (11 × 8) × 9 = 9 × (11 × 8)

8. Which equation shows how to apply the Associative Property of Multiplication to determine the value of 3 × (2 × 10)?

A. 5 × 10 = 50

B. 6 × 10 = 60

C. 3 × 20 = 320

D. 3 × 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.** _____.

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