Finding Identity Property of Multiplication

Name: _____

Determine which choice best shows the identity property of multiplication.

1) A. $1 \times 1 = 1$
    B. $(1 \times 8) \times 9 = 1 \times (8 \times 9)$
    C. $1 \times 8 = 8 \times 1$
    D. $(1 \times 8) + (1 \times 9) = 1 \times (8 + 9)$

2) A. $9 \times (3 + 4) = (9 \times 3) + (9 \times 4)$
    B. $9 \times 3 = 3 \times 9$
    C. $9 \times (3 \times 4) = (9 \times 3) \times 4$
    D. $1 \times 9 = 9$

3) A. $1 \times 1 = 1$
    B. $(1 \times 10) \times 2 = 1 \times (10 \times 2)$
    C. $1 \times 10 = 10 \times 1$
    D. $(1 \times 10) + (1 \times 2) = 1 \times (10 + 2)$

4) A. $4 \times 7 = 7 \times 4$
    B. $1 \times 4 = 4$
    C. $4 \times (7 \times 8) = (4 \times 7) \times 8$
    D. $4 \times (7 + 8) = (4 \times 7) + (4 \times 8)$

5) A. $5 \times (4 + 10) = (5 \times 4) + (5 \times 10)$
    B. $5 \times 4 = 4 \times 5$
    C. $1 \times 5 = 5$
    D. $5 \times (4 \times 10) = (5 \times 4) \times 10$

6) A. $8 \times (10 \times 5) = (8 \times 10) \times 5$
    B. $1 \times 8 = 8$
    C. $8 \times (10 + 5) = (8 \times 10) + (8 \times 5)$
    D. $8 \times 10 = 10 \times 8$

7) A. $1 \times 2 = 2$
    B. $2 \times (3 \times 5) = (2 \times 3) \times 5$
    C. $2 \times (3 + 5) = (2 \times 3) + (2 \times 5)$
    D. $2 \times 3 = 3 \times 2$

8) A. $1 \times 5 = 5$
    B. $5 \times (2 + 9) = (5 \times 2) + (5 \times 9)$
    C. $5 \times 2 = 2 \times 5$
    D. $5 \times (2 \times 9) = (5 \times 2) \times 9$

9) A. $(7 \times 8) + (7 \times 4) = 7 \times (8 + 4)$
    B. $(7 \times 8) \times 4 = 7 \times (8 \times 4)$
    C. $7 \times 1 = 7$
    D. $7 \times 8 = 8 \times 7$

10) A. $(2 \times 6) \times 4 = 2 \times (6 \times 4)$
    B. $(2 \times 6) + (2 \times 4) = 2 \times (6 + 4)$
    C. $2 \times 1 = 2$
    D. $2 \times 6 = 6 \times 2$

11) A. $7 \times 4 = 4 \times 7$
    B. $7 \times (4 \times 2) = (7 \times 4) \times 2$
    C. $7 \times (4 + 2) = (7 \times 4) + (7 \times 2)$
    D. $1 \times 7 = 7$

12) A. $1 \times (5 \times 6) = (1 \times 5) \times 6$
    B. $1 \times 1 = 1$
    C. $1 \times 5 = 5 \times 1$
    D. $1 \times (5 + 6) = (1 \times 5) + (1 \times 6)$

Math

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Name: **Answer Key**

	Answers

Determine which choice best shows the identity property of multiplication.

1) A. $1 \times 1 = 1$
B. $(1 \times 8) \times 9 = 1 \times (8 \times 9)$
C. $1 \times 8 = 8 \times 1$
D. $(1 \times 8) + (1 \times 9) = 1 \times (8 + 9)$

2) A. $9 \times (3 + 4) = (9 \times 3) + (9 \times 4)$
B. $9 \times 3 = 3 \times 9$
C. $9 \times (3 \times 4) = (9 \times 3) \times 4$
D. $1 \times 9 = 9$

1.   **A**

2.   **D**

3.   **A**

3) A. $1 \times 1 = 1$
B. $(1 \times 10) \times 2 = 1 \times (10 \times 2)$
C. $1 \times 10 = 10 \times 1$
D. $(1 \times 10) + (1 \times 2) = 1 \times (10 + 2)$

4) A. $4 \times 7 = 7 \times 4$
B. $1 \times 4 = 4$
C. $4 \times (7 \times 8) = (4 \times 7) \times 8$
D. $4 \times (7 + 8) = (4 \times 7) + (4 \times 8)$

4.   **B**

5.   **C**

6.   **B**

5) A. $5 \times (4 + 10) = (5 \times 4) + (5 \times 10)$
B. $5 \times 4 = 4 \times 5$
C. $1 \times 5 = 5$
D. $5 \times (4 \times 10) = (5 \times 4) \times 10$

6) A. $8 \times (10 \times 5) = (8 \times 10) \times 5$
B. $1 \times 8 = 8$
C. $8 \times (10 + 5) = (8 \times 10) + (8 \times 5)$
D. $8 \times 10 = 10 \times 8$

7.   **A**

8.   **A**

9.   **C**

10.   **C**

7) A. $1 \times 2 = 2$
B. $2 \times (3 \times 5) = (2 \times 3) \times 5$
C. $2 \times (3 + 5) = (2 \times 3) + (2 \times 5)$
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8) A. $1 \times 5 = 5$
B. $5 \times (2 + 9) = (5 \times 2) + (5 \times 9)$
C. $5 \times 2 = 2 \times 5$
D. $5 \times (2 \times 9) = (5 \times 2) \times 9$

11.   **D**

12.   **B**

9) A. $(7 \times 8) + (7 \times 4) = 7 \times (8 + 4)$
B. $(7 \times 8) \times 4 = 7 \times (8 \times 4)$
C. $7 \times 1 = 7$
D. $7 \times 8 = 8 \times 7$

10) A. $(2 \times 6) \times 4 = 2 \times (6 \times 4)$
B. $(2 \times 6) + (2 \times 4) = 2 \times (6 + 4)$
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11) A. $7 \times 4 = 4 \times 7$
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C. $7 \times (4 + 2) = (7 \times 4) + (7 \times 2)$
D. $1 \times 7 = 7$

12) A. $1 \times (5 \times 6) = (1 \times 5) \times 6$
B. $1 \times 1 = 1$
C. $1 \times 5 = 5 \times 1$
D. $1 \times (5 + 6) = (1 \times 5) + (1 \times 6)$

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