Finding Identity Property of Multiplication

Name:

Determine which choice best shows the identity property of multiplication.

1) A. $0 \times (2 + 10) = (0 \times 2) + (0 \times 10)$
    B. $0 \times (2 \times 10) = (0 \times 2) \times 10$
    C. $1 \times 0 = 0$
    D. $0 \times 2 = 2 \times 0$

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

3) A. $9 \times 0 = 0 \times 9$
    B. $9 \times (0 \times 5) = (9 \times 0) \times 5$
    C. $9 \times (0 + 5) = (9 \times 0) + (9 \times 5)$
    D. $1 \times 9 = 9$

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

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

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

7) A. $5 \times (0 + 8) = (5 \times 0) + (5 \times 8)$
    B. $1 \times 5 = 5$
    C. $5 \times (0 \times 8) = (5 \times 0) \times 8$
    D. $5 \times 0 = 0 \times 5$

8) A. $8 \times 0 = 0 \times 8$
    B. $8 \times (0 \times 6) = (8 \times 0) \times 6$
    C. $1 \times 8 = 8$
    D. $8 \times (0 + 6) = (8 \times 0) + (8 \times 6)$

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

10) A. $6 \times 0 = 0 \times 6$
    B. $(6 \times 0) \times 9 = 6 \times (0 \times 9)$
    C. $6 \times 1 = 6$
    D. $(6 \times 0) + (6 \times 9) = 6 \times (0 + 9)$

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

12) A. $(3 \times 7) \times 4 = 3 \times (7 \times 4)$
    B. $3 \times 7 = 7 \times 3$
    C. $(3 \times 7) + (3 \times 4) = 3 \times (7 + 4)$
    D. $3 \times 1 = 3$

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

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

1.   **C**

2.   **A**

3.   **D**

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    B. $9 \times (0 \times 5) = (9 \times 0) \times 5$
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4.   **D**

5.   **A**

6.   **A**

5)   A. $1 \times 1 = 1$
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7.   **B**

8.   **C**

9.   **D**

7)   A. $5 \times (0 + 8) = (5 \times 0) + (5 \times 8)$
    B. $1 \times 5 = 5$
    C. $5 \times (0 \times 8) = (5 \times 0) \times 8$
    D. $5 \times 0 = 0 \times 5$

8)   A. $8 \times 0 = 0 \times 8$
    B. $8 \times (0 \times 6) = (8 \times 0) \times 6$
    C. $1 \times 8 = 8$
    D. $8 \times (0 + 6) = (8 \times 0) + (8 \times 6)$

10.   **C**

11.   **B**

12.   **D**

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