Finding Associative Property of Multiplication   Name:

Determine which choice best shows the associative property of multiplication.

1)   A. $2 \times (6 + 9) = (2 \times 6) + (2 \times 9)$
     B. $2 \times 6 = 6 \times 2$
     C. $1 \times 2 = 2$
     D. $2 \times (6 \times 9) = (2 \times 6) \times 9$

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

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

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

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

6)   A. $6 \times 1 = 6$
     B. $(6 \times 7) + (6 \times 8) = 6 \times (7 + 8)$
     C. $6 \times 7 = 7 \times 6$
     D. $(6 \times 7) \times 8 = 6 \times (7 \times 8)$

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

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

9)   A. $(9 \times 4) \times 0 = 9 \times (4 \times 0)$
     B. $9 \times 4 = 4 \times 9$
     C. $(9 \times 4) + (9 \times 0) = 9 \times (4 + 0)$
     D. $9 \times 1 = 9$

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

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

12) A. $9 \times 1 = 9$
     B. $(9 \times 0) \times 7 = 9 \times (0 \times 7)$
     C. $9 \times 0 = 0 \times 9$
     D. $(9 \times 0) + (9 \times 7) = 9 \times (0 + 7)$

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

1. **D**

2. **C**

3. **C**

3) A. $0 \times (8 + 5) = (0 \times 8) + (0 \times 5)$
    B. $0 \times 8 = 8 \times 0$
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4. **C**

5. **C**

6. **D**

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7. **D**

8. **C**

9. **A**

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10. **B**

11. **A**

12. **B**

9) A. $(9 \times 4) \times 0 = 9 \times (4 \times 0)$
    B. $9 \times 4 = 4 \times 9$
    C. $(9 \times 4) + (9 \times 0) = 9 \times (4 + 0)$
    D. $9 \times 1 = 9$

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