



Determine which choice best shows the associative property of multiplication.

**Answers**

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

- 2) A.  $1 \times 5 = 5$   
 B.  $5 \times 0 = 0 \times 5$   
 C.  $5 \times (0 + 10) = (5 \times 0) + (5 \times 10)$   
 D.  $5 \times (0 \times 10) = (5 \times 0) \times 10$

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

- 4) A.  $7 \times 4 = 4 \times 7$   
 B.  $(7 \times 4) \times 0 = 7 \times (4 \times 0)$   
 C.  $7 \times 1 = 7$   
 D.  $(7 \times 4) + (7 \times 0) = 7 \times (4 + 0)$

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

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

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

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

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

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

- 11) A.  $4 \times 1 = 4$   
 B.  $(4 \times 3) \times 8 = 4 \times (3 \times 8)$   
 C.  $4 \times 3 = 3 \times 4$   
 D.  $(4 \times 3) + (4 \times 8) = 4 \times (3 + 8)$

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

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 3. \_\_\_\_\_  
 4. \_\_\_\_\_  
 5. \_\_\_\_\_  
 6. \_\_\_\_\_  
 7. \_\_\_\_\_  
 8. \_\_\_\_\_  
 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best shows the associative property of multiplication.

**Answers**

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

- 2) A.  $1 \times 5 = 5$   
 B.  $5 \times 0 = 0 \times 5$   
 C.  $5 \times (0 + 10) = (5 \times 0) + (5 \times 10)$   
 D.  $5 \times (0 \times 10) = (5 \times 0) \times 10$

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

- 4) A.  $7 \times 4 = 4 \times 7$   
 B.  $(7 \times 4) \times 0 = 7 \times (4 \times 0)$   
 C.  $7 \times 1 = 7$   
 D.  $(7 \times 4) + (7 \times 0) = 7 \times (4 + 0)$

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

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

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

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

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

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

- 11) A.  $4 \times 1 = 4$   
 B.  $(4 \times 3) \times 8 = 4 \times (3 \times 8)$   
 C.  $4 \times 3 = 3 \times 4$   
 D.  $(4 \times 3) + (4 \times 8) = 4 \times (3 + 8)$

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

1.   **C**    
 2.   **D**    
 3.   **A**    
 4.   **B**    
 5.   **D**    
 6.   **A**    
 7.   **D**    
 8.   **A**    
 9.   **A**    
 10.   **B**    
 11.   **B**    
 12.   **C**