



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

- 3) A.  $(2 \times 10) \times 8 = 2 \times (10 \times 8)$   
 B.  $(2 \times 10) + (2 \times 8) = 2 \times (10 + 8)$   
 C.  $2 \times 1 = 2$   
 D.  $2 \times 10 = 10 \times 2$

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

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

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

- 7) A.  $5 \times (4 + 6) = (5 \times 4) + (5 \times 6)$   
 B.  $1 \times 5 = 5$   
 C.  $5 \times (4 \times 6) = (5 \times 4) \times 6$   
 D.  $5 \times 4 = 4 \times 5$

- 8) A.  $2 \times 1 = 2$   
 B.  $2 \times 6 = 6 \times 2$   
 C.  $(2 \times 6) \times 0 = 2 \times (6 \times 0)$   
 D.  $(2 \times 6) + (2 \times 0) = 2 \times (6 + 0)$

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

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

- 11) A.  $7 \times 1 = 7$   
 B.  $7 \times 5 = 5 \times 7$   
 C.  $(7 \times 5) \times 4 = 7 \times (5 \times 4)$   
 D.  $(7 \times 5) + (7 \times 4) = 7 \times (5 + 4)$

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

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 D.  $(7 \times 2) + (7 \times 4) = 7 \times (2 + 4)$
- 2) A.  $(7 \times 3) + (7 \times 2) = 7 \times (3 + 2)$   
 B.  $(7 \times 3) \times 2 = 7 \times (3 \times 2)$   
 C.  $7 \times 1 = 7$   
 D.  $7 \times 3 = 3 \times 7$

1.     **C**    

2.     **B**    

- 3) A.  $(2 \times 10) \times 8 = 2 \times (10 \times 8)$   
 B.  $(2 \times 10) + (2 \times 8) = 2 \times (10 + 8)$   
 C.  $2 \times 1 = 2$   
 D.  $2 \times 10 = 10 \times 2$
- 4) A.  $(9 \times 4) \times 5 = 9 \times (4 \times 5)$   
 B.  $(9 \times 4) + (9 \times 5) = 9 \times (4 + 5)$   
 C.  $9 \times 1 = 9$   
 D.  $9 \times 4 = 4 \times 9$

3.     **A**    

4.     **A**    

5.     **A**    

6.     **B**    

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

7.     **C**    

8.     **C**    

9.     **D**    

10.     **C**    

- 7) A.  $5 \times (4 + 6) = (5 \times 4) + (5 \times 6)$   
 B.  $1 \times 5 = 5$   
 C.  $5 \times (4 \times 6) = (5 \times 4) \times 6$   
 D.  $5 \times 4 = 4 \times 5$
- 8) A.  $2 \times 1 = 2$   
 B.  $2 \times 6 = 6 \times 2$   
 C.  $(2 \times 6) \times 0 = 2 \times (6 \times 0)$   
 D.  $(2 \times 6) + (2 \times 0) = 2 \times (6 + 0)$

11.     **C**    

12.     **A**    

- 9) A.  $6 \times 10 = 10 \times 6$   
 B.  $6 \times 1 = 6$   
 C.  $(6 \times 10) + (6 \times 1) = 6 \times (10 + 1)$   
 D.  $(6 \times 10) \times 1 = 6 \times (10 \times 1)$
- 10) A.  $1 \times 10 = 10 \times 1$   
 B.  $1 \times 1 = 1$   
 C.  $1 \times (10 \times 3) = (1 \times 10) \times 3$   
 D.  $1 \times (10 + 3) = (1 \times 10) + (1 \times 3)$

- 11) A.  $7 \times 1 = 7$   
 B.  $7 \times 5 = 5 \times 7$   
 C.  $(7 \times 5) \times 4 = 7 \times (5 \times 4)$   
 D.  $(7 \times 5) + (7 \times 4) = 7 \times (5 + 4)$
- 12) A.  $9 \times (5 \times 4) = (9 \times 5) \times 4$   
 B.  $9 \times 5 = 5 \times 9$   
 C.  $9 \times (5 + 4) = (9 \times 5) + (9 \times 4)$   
 D.  $1 \times 9 = 9$



Determine which choice best shows the associative property of multiplication.

**Answers**

- 1) A.  $(0 \times 10) \times 7 = 0 \times (10 \times 7)$   
 B.  $(0 \times 10) + (0 \times 7) = 0 \times (10 + 7)$   
 C.  $0 \times 1 = 0$   
 D.  $0 \times 10 = 10 \times 0$

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

- 3) A.  $8 \times 5 = 5 \times 8$   
 B.  $1 \times 8 = 8$   
 C.  $8 \times (5 \times 4) = (8 \times 5) \times 4$   
 D.  $8 \times (5 + 4) = (8 \times 5) + (8 \times 4)$

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

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

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

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

- 8) A.  $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$   
 B.  $5 \times 6 = 6 \times 5$   
 C.  $5 \times 1 = 5$   
 D.  $(5 \times 6) \times 7 = 5 \times (6 \times 7)$

- 9) A.  $1 \times 10 = 10$   
 B.  $10 \times (5 + 7) = (10 \times 5) + (10 \times 7)$   
 C.  $10 \times (5 \times 7) = (10 \times 5) \times 7$   
 D.  $10 \times 5 = 5 \times 10$

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

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

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

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Determine which choice best shows the associative property of multiplication.

**Answers**

- 1) A.  $(0 \times 10) \times 7 = 0 \times (10 \times 7)$   
 B.  $(0 \times 10) + (0 \times 7) = 0 \times (10 + 7)$   
 C.  $0 \times 1 = 0$   
 D.  $0 \times 10 = 10 \times 0$

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

- 3) A.  $8 \times 5 = 5 \times 8$   
 B.  $1 \times 8 = 8$   
 C.  $8 \times (5 \times 4) = (8 \times 5) \times 4$   
 D.  $8 \times (5 + 4) = (8 \times 5) + (8 \times 4)$

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

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

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

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

- 8) A.  $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$   
 B.  $5 \times 6 = 6 \times 5$   
 C.  $5 \times 1 = 5$   
 D.  $(5 \times 6) \times 7 = 5 \times (6 \times 7)$

- 9) A.  $1 \times 10 = 10$   
 B.  $10 \times (5 + 7) = (10 \times 5) + (10 \times 7)$   
 C.  $10 \times (5 \times 7) = (10 \times 5) \times 7$   
 D.  $10 \times 5 = 5 \times 10$

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

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

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

1.   **A**  

2.   **D**  

3.   **C**  

4.   **C**  

5.   **D**  

6.   **C**  

7.   **A**  

8.   **D**  

9.   **C**  

10.   **A**  

11.   **D**  

12.   **D**



Determine which choice best shows the associative property of multiplication.

**Answers**

- 1) A.  $3 \times 6 = 6 \times 3$   
 B.  $3 \times 1 = 3$   
 C.  $(3 \times 6) + (3 \times 10) = 3 \times (6 + 10)$   
 D.  $(3 \times 6) \times 10 = 3 \times (6 \times 10)$

- 2) A.  $1 \times 3 = 3$   
 B.  $3 \times (7 \times 10) = (3 \times 7) \times 10$   
 C.  $3 \times (7 + 10) = (3 \times 7) + (3 \times 10)$   
 D.  $3 \times 7 = 7 \times 3$

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

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

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

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

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

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

- 9) A.  $7 \times (0 \times 3) = (7 \times 0) \times 3$   
 B.  $1 \times 7 = 7$   
 C.  $7 \times 0 = 0 \times 7$   
 D.  $7 \times (0 + 3) = (7 \times 0) + (7 \times 3)$

- 10) A.  $8 \times (9 \times 3) = (8 \times 9) \times 3$   
 B.  $8 \times (9 + 3) = (8 \times 9) + (8 \times 3)$   
 C.  $8 \times 9 = 9 \times 8$   
 D.  $1 \times 8 = 8$

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

- 12) A.  $4 \times (3 + 0) = (4 \times 3) + (4 \times 0)$   
 B.  $1 \times 4 = 4$   
 C.  $4 \times 3 = 3 \times 4$   
 D.  $4 \times (3 \times 0) = (4 \times 3) \times 0$

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Determine which choice best shows the associative property of multiplication.

**Answers**

- 1) A.  $3 \times 6 = 6 \times 3$   
 B.  $3 \times 1 = 3$   
 C.  $(3 \times 6) + (3 \times 10) = 3 \times (6 + 10)$   
 D.  $(3 \times 6) \times 10 = 3 \times (6 \times 10)$

- 2) A.  $1 \times 3 = 3$   
 B.  $3 \times (7 \times 10) = (3 \times 7) \times 10$   
 C.  $3 \times (7 + 10) = (3 \times 7) + (3 \times 10)$   
 D.  $3 \times 7 = 7 \times 3$

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

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

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

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

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

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

- 9) A.  $7 \times (0 \times 3) = (7 \times 0) \times 3$   
 B.  $1 \times 7 = 7$   
 C.  $7 \times 0 = 0 \times 7$   
 D.  $7 \times (0 + 3) = (7 \times 0) + (7 \times 3)$

- 10) A.  $8 \times (9 \times 3) = (8 \times 9) \times 3$   
 B.  $8 \times (9 + 3) = (8 \times 9) + (8 \times 3)$   
 C.  $8 \times 9 = 9 \times 8$   
 D.  $1 \times 8 = 8$

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

- 12) A.  $4 \times (3 + 0) = (4 \times 3) + (4 \times 0)$   
 B.  $1 \times 4 = 4$   
 C.  $4 \times 3 = 3 \times 4$   
 D.  $4 \times (3 \times 0) = (4 \times 3) \times 0$

1.     **D**    

2.     **B**    

3.     **C**    

4.     **C**    

5.     **C**    

6.     **C**    

7.     **C**    

8.     **A**    

9.     **A**    

10.     **A**    

11.     **C**    

12.     **D**



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

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

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

- 5) A.  $0 \times (2 + 7) = (0 \times 2) + (0 \times 7)$   
 B.  $0 \times 2 = 2 \times 0$   
 C.  $1 \times 0 = 0$   
 D.  $0 \times (2 \times 7) = (0 \times 2) \times 7$

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

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

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

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

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

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

- 12) A.  $8 \times (2 + 7) = (8 \times 2) + (8 \times 7)$   
 B.  $8 \times 2 = 2 \times 8$   
 C.  $8 \times (2 \times 7) = (8 \times 2) \times 7$   
 D.  $1 \times 8 = 8$

1. \_\_\_\_\_  
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 12. \_\_\_\_\_



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

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

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

- 5) A.  $0 \times (2 + 7) = (0 \times 2) + (0 \times 7)$   
 B.  $0 \times 2 = 2 \times 0$   
 C.  $1 \times 0 = 0$   
 D.  $0 \times (2 \times 7) = (0 \times 2) \times 7$

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

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

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

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

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

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

- 12) A.  $8 \times (2 + 7) = (8 \times 2) + (8 \times 7)$   
 B.  $8 \times 2 = 2 \times 8$   
 C.  $8 \times (2 \times 7) = (8 \times 2) \times 7$   
 D.  $1 \times 8 = 8$

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





Determine which choice best shows the associative property of multiplication.

**Answers**

- 1) A.  $0 \times 1 = 0$   
 B.  $0 \times 4 = 4 \times 0$   
 C.  $(0 \times 4) \times 6 = 0 \times (4 \times 6)$   
 D.  $(0 \times 4) + (0 \times 6) = 0 \times (4 + 6)$

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

- 3) A.  $3 \times (8 \times 6) = (3 \times 8) \times 6$   
 B.  $3 \times (8 + 6) = (3 \times 8) + (3 \times 6)$   
 C.  $1 \times 3 = 3$   
 D.  $3 \times 8 = 8 \times 3$

- 4) A.  $9 \times 10 = 10 \times 9$   
 B.  $(9 \times 10) \times 2 = 9 \times (10 \times 2)$   
 C.  $(9 \times 10) + (9 \times 2) = 9 \times (10 + 2)$   
 D.  $9 \times 1 = 9$

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

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

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

- 8) A.  $6 \times 3 = 3 \times 6$   
 B.  $(6 \times 3) + (6 \times 9) = 6 \times (3 + 9)$   
 C.  $(6 \times 3) \times 9 = 6 \times (3 \times 9)$   
 D.  $6 \times 1 = 6$

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

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

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

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

1. \_\_\_\_\_  
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 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best shows the associative property of multiplication.

**Answers**

- 1) A.  $0 \times 1 = 0$   
 B.  $0 \times 4 = 4 \times 0$   
 C.  $(0 \times 4) \times 6 = 0 \times (4 \times 6)$   
 D.  $(0 \times 4) + (0 \times 6) = 0 \times (4 + 6)$

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

- 3) A.  $3 \times (8 \times 6) = (3 \times 8) \times 6$   
 B.  $3 \times (8 + 6) = (3 \times 8) + (3 \times 6)$   
 C.  $1 \times 3 = 3$   
 D.  $3 \times 8 = 8 \times 3$

- 4) A.  $9 \times 10 = 10 \times 9$   
 B.  $(9 \times 10) \times 2 = 9 \times (10 \times 2)$   
 C.  $(9 \times 10) + (9 \times 2) = 9 \times (10 + 2)$   
 D.  $9 \times 1 = 9$

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

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

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

- 8) A.  $6 \times 3 = 3 \times 6$   
 B.  $(6 \times 3) + (6 \times 9) = 6 \times (3 + 9)$   
 C.  $(6 \times 3) \times 9 = 6 \times (3 \times 9)$   
 D.  $6 \times 1 = 6$

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

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

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

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

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



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

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

- 4) A.  $(9 \times 10) \times 3 = 9 \times (10 \times 3)$   
 B.  $(9 \times 10) + (9 \times 3) = 9 \times (10 + 3)$   
 C.  $9 \times 1 = 9$   
 D.  $9 \times 10 = 10 \times 9$

- 5) A.  $1 \times 0 = 0$   
 B.  $0 \times 10 = 10 \times 0$   
 C.  $0 \times (10 + 3) = (0 \times 10) + (0 \times 3)$   
 D.  $0 \times (10 \times 3) = (0 \times 10) \times 3$

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

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

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

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

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

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

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

1. \_\_\_\_\_  
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 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

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

- 4) A.  $(9 \times 10) \times 3 = 9 \times (10 \times 3)$   
 B.  $(9 \times 10) + (9 \times 3) = 9 \times (10 + 3)$   
 C.  $9 \times 1 = 9$   
 D.  $9 \times 10 = 10 \times 9$

- 5) A.  $1 \times 0 = 0$   
 B.  $0 \times 10 = 10 \times 0$   
 C.  $0 \times (10 + 3) = (0 \times 10) + (0 \times 3)$   
 D.  $0 \times (10 \times 3) = (0 \times 10) \times 3$

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

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

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

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

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

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

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

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



Determine which choice best shows the associative property of multiplication.

**Answers**

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

- 2) A.  $5 \times 6 = 6 \times 5$   
 B.  $1 \times 5 = 5$   
 C.  $5 \times (6 + 3) = (5 \times 6) + (5 \times 3)$   
 D.  $5 \times (6 \times 3) = (5 \times 6) \times 3$

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

- 4) A.  $(8 \times 10) + (8 \times 3) = 8 \times (10 + 3)$   
 B.  $(8 \times 10) \times 3 = 8 \times (10 \times 3)$   
 C.  $8 \times 10 = 10 \times 8$   
 D.  $8 \times 1 = 8$

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

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

- 7) A.  $1 \times 7 = 7$   
 B.  $7 \times (2 \times 0) = (7 \times 2) \times 0$   
 C.  $7 \times (2 + 0) = (7 \times 2) + (7 \times 0)$   
 D.  $7 \times 2 = 2 \times 7$

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

- 9) A.  $5 \times 6 = 6 \times 5$   
 B.  $5 \times 1 = 5$   
 C.  $(5 \times 6) \times 7 = 5 \times (6 \times 7)$   
 D.  $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$

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

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

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

1. \_\_\_\_\_  
 2. \_\_\_\_\_  
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 9. \_\_\_\_\_  
 10. \_\_\_\_\_  
 11. \_\_\_\_\_  
 12. \_\_\_\_\_



Determine which choice best shows the associative property of multiplication.

**Answers**

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

- 2) A.  $5 \times 6 = 6 \times 5$   
 B.  $1 \times 5 = 5$   
 C.  $5 \times (6 + 3) = (5 \times 6) + (5 \times 3)$   
 D.  $5 \times (6 \times 3) = (5 \times 6) \times 3$

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

- 4) A.  $(8 \times 10) + (8 \times 3) = 8 \times (10 + 3)$   
 B.  $(8 \times 10) \times 3 = 8 \times (10 \times 3)$   
 C.  $8 \times 10 = 10 \times 8$   
 D.  $8 \times 1 = 8$

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

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

- 7) A.  $1 \times 7 = 7$   
 B.  $7 \times (2 \times 0) = (7 \times 2) \times 0$   
 C.  $7 \times (2 + 0) = (7 \times 2) + (7 \times 0)$   
 D.  $7 \times 2 = 2 \times 7$

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

- 9) A.  $5 \times 6 = 6 \times 5$   
 B.  $5 \times 1 = 5$   
 C.  $(5 \times 6) \times 7 = 5 \times (6 \times 7)$   
 D.  $(5 \times 6) + (5 \times 7) = 5 \times (6 + 7)$

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

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

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

1. **D**

2. **D**

3. **D**

4. **B**

5. **B**

6. **C**

7. **B**

8. **A**

9. **C**

10. **B**

11. **A**

12. **B**



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

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

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

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

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

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

- 8) A.  $8 \times (3 + 6) = (8 \times 3) + (8 \times 6)$   
 B.  $8 \times 3 = 3 \times 8$   
 C.  $1 \times 8 = 8$   
 D.  $8 \times (3 \times 6) = (8 \times 3) \times 6$

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

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

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

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

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



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

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

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

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

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

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

- 8) A.  $8 \times (3 + 6) = (8 \times 3) + (8 \times 6)$   
 B.  $8 \times 3 = 3 \times 8$   
 C.  $1 \times 8 = 8$   
 D.  $8 \times (3 \times 6) = (8 \times 3) \times 6$

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

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

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

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

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





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**



Determine which choice best shows the associative property of multiplication.

**Answers**

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

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

- 3) A.  $8 \times (6 + 2) = (8 \times 6) + (8 \times 2)$   
 B.  $8 \times 6 = 6 \times 8$   
 C.  $8 \times (6 \times 2) = (8 \times 6) \times 2$   
 D.  $1 \times 8 = 8$

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

- 5) A.  $4 \times (7 + 5) = (4 \times 7) + (4 \times 5)$   
 B.  $4 \times (7 \times 5) = (4 \times 7) \times 5$   
 C.  $1 \times 4 = 4$   
 D.  $4 \times 7 = 7 \times 4$

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

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

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

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

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

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

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

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

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

- 3) A.  $8 \times (6 + 2) = (8 \times 6) + (8 \times 2)$   
 B.  $8 \times 6 = 6 \times 8$   
 C.  $8 \times (6 \times 2) = (8 \times 6) \times 2$   
 D.  $1 \times 8 = 8$

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

- 5) A.  $4 \times (7 + 5) = (4 \times 7) + (4 \times 5)$   
 B.  $4 \times (7 \times 5) = (4 \times 7) \times 5$   
 C.  $1 \times 4 = 4$   
 D.  $4 \times 7 = 7 \times 4$

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

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

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

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

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

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

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

1. **D**

2. **B**

3. **C**

4. **C**

5. **B**

6. **C**

7. **A**

8. **D**

9. **B**

10. **A**

11. **C**

12. **A**