



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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 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**