



## Finding Associative Property of Multiplication

Name: \_\_\_\_\_

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to  $(1 \times 9) \times 10$   
 A.  $(1 + 9) + 10$   
 B.  $(1 \times 9) + 10$   
 C.  $1 + (9 \times 10)$   
 D.  $1 \times (9 \times 10)$
- 2) Which expression is equal to  $0 \times (7 \times 4)$   
 A.  $0 + (7 \times 4)$   
 B.  $(0 + 7) \times 4$   
 C.  $(0 + 7) + 4$   
 D.  $(0 \times 7) \times 4$
- 3) Which expression is equal to  $9 \times (0 \times 7)$   
 A.  $9 \times (0 + 7)$   
 B.  $(9 \times 0) \times 7$   
 C.  $(9 + 0) \times 7$   
 D.  $(9 + 0) + 7$
- 4) Which expression is equal to  $9 \times (1 \times 10)$   
 A.  $(9 + 1) \times 10$   
 B.  $9 \times (1 + 10)$   
 C.  $(9 \times 1) \times 10$   
 D.  $(9 \times 1) + 10$
- 5) Which expression is equal to  $(1 \times 9) \times 10$   
 A.  $(1 \times 9) + 10$   
 B.  $1 \times (9 \times 10)$   
 C.  $1 + (9 \times 10)$   
 D.  $1 + (9 + 10)$
- 6) Which expression is equal to  $(4 \times 5) \times 2$   
 A.  $4 + (5 \times 2)$   
 B.  $(4 + 5) + 2$   
 C.  $4 \times (5 \times 2)$   
 D.  $4 \times (5 + 2)$
- 7) Which expression is equal to  $3 \times (5 \times 9)$   
 A.  $(3 + 5) \times 9$   
 B.  $3 + (5 + 9)$   
 C.  $(3 \times 5) + 9$   
 D.  $(3 \times 5) \times 9$
- 8) Which expression is equal to  $3 \times (6 \times 9)$   
 A.  $3 + (6 + 9)$   
 B.  $(3 \times 6) \times 9$   
 C.  $(3 + 6) \times 9$   
 D.  $(3 + 6) + 9$
- 9) Which expression is equal to  $(8 \times 3) \times 1$   
 A.  $(8 + 3) + 1$   
 B.  $(8 + 3) \times 1$   
 C.  $8 + (3 + 1)$   
 D.  $8 \times (3 \times 1)$
- 10) Which expression is equal to  $(6 \times 5) \times 3$   
 A.  $(6 + 5) + 3$   
 B.  $6 \times (5 + 3)$   
 C.  $6 \times (5 \times 3)$   
 D.  $(6 + 5) \times 3$
- 11) Which expression is equal to  $7 \times (4 \times 3)$   
 A.  $7 \times (4 + 3)$   
 B.  $7 + (4 + 3)$   
 C.  $(7 \times 4) \times 3$   
 D.  $7 + (4 \times 3)$
- 12) Which expression is equal to  $4 \times (1 \times 2)$   
 A.  $4 + (1 \times 2)$   
 B.  $4 + (1 + 2)$   
 C.  $(4 \times 1) \times 2$   
 D.  $(4 \times 1) + 2$

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

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

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

**Determine which choice is an equivalent equation.**

- Answers**
1. **D**
2. **D**
3. **B**
4. **C**
5. **B**
6. **C**
7. **D**
8. **B**
9. **D**
10. **C**
11. **C**
12. **C**
- 1) Which expression is equal to  $(1 \times 9) \times 10$   
 A.  $(1 + 9) + 10$   
 B.  $(1 \times 9) + 10$   
 C.  $1 + (9 \times 10)$   
 D.  $1 \times (9 \times 10)$
- 2) Which expression is equal to  $0 \times (7 \times 4)$   
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 D.  $(4 \times 1) + 2$