Finding Associative Property of Multiplication

Name:

Determine which choice is an equivalent equation.

1) Which expression is equal to $(6 \times 2) \times 0$

A. $(6 + 2) \times 0$
B. $6 \times (2 \times 0)$
C. $6 \times (2 + 0)$
D. $6 + (2 + 0)$

2) Which expression is equal to $1 \times (7 \times 8)$

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

3) Which expression is equal to $(9 \times 8) \times 3$

A. $(9 \times 8) + 3$
B. $(9 + 8) \times 3$
C. $9 \times (8 \times 3)$
D. $(9 + 8) + 3$

4) Which expression is equal to $8 \times (10 \times 5)$

A. $(8 + 10) \times 5$
B. $8 + (10 + 5)$
C. $(8 \times 10) + 5$
D. $(8 \times 10) \times 5$

5) Which expression is equal to $(0 \times 8) \times 9$

A. $0 + (8 + 9)$
B. $0 \times (8 \times 9)$
C. $(0 + 8) \times 9$
D. $(0 + 8) + 9$

6) Which expression is equal to $3 \times (4 \times 0)$

A. $(3 + 4) + 0$
B. $(3 \times 4) \times 0$
C. $3 + (4 + 0)$
D. $3 + (4 \times 0)$

7) Which expression is equal to $(9 \times 8) \times 6$

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

8) Which expression is equal to $5 \times (8 \times 9)$

A. $(5 + 8) + 9$
B. $5 \times (8 + 9)$
C. $(5 \times 8) \times 9$
D. $(5 \times 8) + 9$

9) Which expression is equal to $2 \times (8 \times 10)$

A. $2 + (8 + 10)$
B. $(2 \times 8) \times 10$
C. $2 \times (8 + 10)$
D. $(2 \times 8) + 10$

10) Which expression is equal to $8 \times (3 \times 6)$

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

11) Which expression is equal to $(8 \times 3) \times 4$

A. $8 \times (3 \times 4)$
B. $(8 + 3) + 4$
C. $(8 \times 3) + 4$
D. $8 + (3 + 4)$

12) Which expression is equal to $(2 \times 6) \times 7$

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

Answers

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

Finding Associative Property of Multiplication Name: **Answer Key**

Determine which choice is an equivalent equation.

1) Which expression is equal to (6 × 2) × 0

A. (6 + 2) × 0
B. 6 × (2 × 0)
C. 6 × (2 + 0)
D. 6 + (2 + 0)

2) Which expression is equal to 1 × (7 × 8)

A. (1 × 7) × 8
B. 1 × (7 + 8)
C. (1 × 7) + 8
D. (1 + 7) × 8

3) Which expression is equal to (9 × 8) × 3

A. (9 × 8) + 3
B. (9 + 8) × 3
C. 9 × (8 × 3)
D. (9 + 8) + 3

4) Which expression is equal to 8 × (10 × 5)

A. (8 + 10) × 5
B. 8 + (10 + 5)
C. (8 × 10) + 5
D. (8 × 10) × 5

5) Which expression is equal to (0 × 8) × 9

A. 0 + (8 + 9)
B. 0 × (8 × 9)
C. (0 + 8) × 9
D. (0 + 8) + 9

6) Which expression is equal to 3 × (4 × 0)

A. (3 + 4) + 0
B. (3 × 4) × 0
C. 3 + (4 + 0)
D. 3 + (4 × 0)

7) Which expression is equal to (9 × 8) × 6

A. 9 + (8 × 6)
B. 9 × (8 × 6)
C. 9 × (8 + 6)
D. (9 × 8) + 6

8) Which expression is equal to 5 × (8 × 9)

A. (5 + 8) + 9
B. 5 × (8 + 9)
C. (5 × 8) × 9
D. (5 × 8) + 9

9) Which expression is equal to 2 × (8 × 10)

A. 2 + (8 + 10)
B. (2 × 8) × 10
C. 2 × (8 + 10)
D. (2 × 8) + 10

10) Which expression is equal to 8 × (3 × 6)

A. 8 × (3 + 6)
B. (8 × 3) + 6
C. 8 + (3 × 6)
D. (8 × 3) × 6

11) Which expression is equal to (8 × 3) × 4

A. 8 × (3 × 4)
B. (8 + 3) + 4
C. (8 × 3) + 4
D. 8 + (3 + 4)

12) Which expression is equal to (2 × 6) × 7

A. 2 × (6 × 7)
B. (2 + 6) + 7
C. (2 × 6) + 7
D. 2 × (6 + 7)

Answers

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								