Finding Associative Property of Multiplication

Name: _____

Determine which choice is an equivalent equation.

1) Which expression is equal to
$(5 \times 9) \times 8$
A. $(5 + 9) \times 8$
B. $(5 \times 9) + 8$
C. $5 \times (9 \times 8)$
D. $5 + (9 + 8)$

2) Which expression is equal to
$(2 \times 7) \times 8$
A. $2 \times (7 \times 8)$
B. $(2 \times 7) + 8$
C. $2 + (7 \times 8)$
D. $(2 + 7) \times 8$

3) Which expression is equal to
$0 \times (6 \times 4)$
A. $0 + (6 \times 4)$
B. $(0 + 6) + 4$
C. $0 \times (6 + 4)$
D. $(0 \times 6) \times 4$

4) Which expression is equal to
$(10 \times 1) \times 4$
A. $10 + (1 \times 4)$
B. $(10 + 1) \times 4$
C. $(10 \times 1) + 4$
D. $10 \times (1 \times 4)$

5) Which expression is equal to
$5 \times (0 \times 6)$
A. $(5 \times 0) \times 6$
B. $(5 \times 0) + 6$
C. $(5 + 0) \times 6$
D. $(5 + 0) + 6$

6) Which expression is equal to
$0 \times (8 \times 1)$
A. $(0 \times 8) + 1$
B. $(0 \times 8) \times 1$
C. $0 + (8 + 1)$
D. $0 + (8 \times 1)$

7) Which expression is equal to
$(2 \times 9) \times 3$
A. $(2 + 9) + 3$
B. $(2 + 9) \times 3$
C. $(2 \times 9) + 3$
D. $2 \times (9 \times 3)$

8) Which expression is equal to
$(7 \times 4) \times 9$
A. $(7 \times 4) + 9$
B. $7 + (4 + 9)$
C. $7 \times (4 \times 9)$
D. $(7 + 4) + 9$

9) Which expression is equal to
$(3 \times 1) \times 5$
A. $(3 \times 1) + 5$
B. $3 \times (1 \times 5)$
C. $3 \times (1 + 5)$
D. $3 + (1 \times 5)$

10) Which expression is equal to
$1 \times (5 \times 6)$
A. $(1 + 5) \times 6$
B. $(1 \times 5) + 6$
C. $(1 + 5) + 6$
D. $(1 \times 5) \times 6$

11) Which expression is equal to
$9 \times (8 \times 2)$
A. $(9 \times 8) \times 2$
B. $(9 + 8) + 2$
C. $9 + (8 \times 2)$
D. $(9 + 8) \times 2$

12) Which expression is equal to
$8 \times (5 \times 2)$
A. $(8 \times 5) \times 2$
B. $8 \times (5 + 2)$
C. $8 + (5 + 2)$
D. $(8 \times 5) + 2$

Math

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

Determine which choice is an equivalent equation.

1) Which expression is equal to
(5 × 9) × 8
A. (5 + 9) × 8
B. (5 × 9) + 8
C. 5 × (9 × 8)
D. 5 + (9 + 8)

2) Which expression is equal to
(2 × 7) × 8
A. 2 × (7 × 8)
B. (2 × 7) + 8
C. 2 + (7 × 8)
D. (2 + 7) × 8

1. **C**

2. **A**

3. **D**

3) Which expression is equal to
0 × (6 × 4)
A. 0 + (6 × 4)
B. (0 + 6) + 4
C. 0 × (6 + 4)
D. (0 × 6) × 4

4) Which expression is equal to
(10 × 1) × 4
A. 10 + (1 × 4)
B. (10 + 1) × 4
C. (10 × 1) + 4
D. 10 × (1 × 4)

4. **D**

5. **A**

6. **B**

5) Which expression is equal to
5 × (0 × 6)
A. (5 × 0) × 6
B. (5 × 0) + 6
C. (5 + 0) × 6
D. (5 + 0) + 6

6) Which expression is equal to
0 × (8 × 1)
A. (0 × 8) + 1
B. (0 × 8) × 1
C. 0 + (8 + 1)
D. 0 + (8 × 1)

7. **D**

8. **C**

9. **B**

7) Which expression is equal to
(2 × 9) × 3
A. (2 + 9) + 3
B. (2 + 9) × 3
C. (2 × 9) + 3
D. 2 × (9 × 3)

8) Which expression is equal to
(7 × 4) × 9
A. (7 × 4) + 9
B. 7 + (4 + 9)
C. 7 × (4 × 9)
D. (7 + 4) + 9

10. **D**

11. **A**

12. **A**

9) Which expression is equal to
(3 × 1) × 5
A. (3 × 1) + 5
B. 3 × (1 × 5)
C. 3 × (1 + 5)
D. 3 + (1 × 5)

10) Which expression is equal to
1 × (5 × 6)
A. (1 + 5) × 6
B. (1 × 5) + 6
C. (1 + 5) + 6
D. (1 × 5) × 6

11) Which expression is equal to
9 × (8 × 2)
A. (9 × 8) × 2
B. (9 + 8) + 2
C. 9 + (8 × 2)
D. (9 + 8) × 2

12) Which expression is equal to
8 × (5 × 2)
A. (8 × 5) × 2
B. 8 × (5 + 2)
C. 8 + (5 + 2)
D. (8 × 5) + 2

Math

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