Finding Associative Property of Multiplication Name:

Determine which choice is an equivalent equation.

1) Which expression is equal to $2 \times (5 \times 10)$

A. $2 + (5 \times 10)$
B. $(2 \times 5) + 10$
C. $2 \times (5 + 10)$
D. $(2 \times 5) \times 10$

2) Which expression is equal to $3 \times (9 \times 0)$

A. $(3 + 9) \times 0$
B. $3 + (9 + 0)$
C. $(3 \times 9) \times 0$
D. $3 + (9 \times 0)$

3) Which expression is equal to $1 \times (0 \times 3)$

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

4) Which expression is equal to $(6 \times 3) \times 9$

A. $6 + (3 + 9)$
B. $(6 + 3) \times 9$
C. $6 \times (3 \times 9)$
D. $(6 \times 3) + 9$

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

A. $(2 + 8) + 7$
B. $(2 + 8) \times 7$
C. $(2 \times 8) \times 7$
D. $2 + (8 + 7)$

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

A. $3 \times (4 \times 6)$
B. $(3 + 4) + 6$
C. $(3 \times 4) + 6$
D. $3 + (4 \times 6)$

7) Which expression is equal to $0 \times (10 \times 1)$

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

8) Which expression is equal to $6 \times (5 \times 0)$

A. $(6 \times 5) \times 0$
B. $6 + (5 \times 0)$
C. $6 + (5 + 0)$
D. $(6 + 5) + 0$

9) Which expression is equal to $(7 \times 5) \times 2$

A. $7 \times (5 + 2)$
B. $(7 + 5) + 2$
C. $(7 \times 5) + 2$
D. $7 \times (5 \times 2)$

10) Which expression is equal to $(3 \times 4) \times 9$

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

11) Which expression is equal to $4 \times (7 \times 5)$

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

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

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

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								

Determine which choice is an equivalent equation.

1) Which expression is equal to $2 \times (5 \times 10)$

A. $2 + (5 \times 10)$
B. $(2 \times 5) + 10$
C. $2 \times (5 + 10)$
D. $(2 \times 5) \times 10$

2) Which expression is equal to $3 \times (9 \times 0)$

A. $(3 + 9) \times 0$
B. $3 + (9 + 0)$
C. $(3 \times 9) \times 0$
D. $3 + (9 \times 0)$

3) Which expression is equal to $1 \times (0 \times 3)$

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

4) Which expression is equal to $(6 \times 3) \times 9$

A. $6 + (3 + 9)$
B. $(6 + 3) \times 9$
C. $6 \times (3 \times 9)$
D. $(6 \times 3) + 9$

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

A. $(2 + 8) + 7$
B. $(2 + 8) \times 7$
C. $(2 \times 8) \times 7$
D. $2 + (8 + 7)$

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

A. $3 \times (4 \times 6)$
B. $(3 + 4) + 6$
C. $(3 \times 4) + 6$
D. $3 + (4 \times 6)$

7) Which expression is equal to $0 \times (10 \times 1)$

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

8) Which expression is equal to $6 \times (5 \times 0)$

A. $(6 \times 5) \times 0$
B. $6 + (5 \times 0)$
C. $6 + (5 + 0)$
D. $(6 + 5) + 0$

9) Which expression is equal to $(7 \times 5) \times 2$

A. $7 \times (5 + 2)$
B. $(7 + 5) + 2$
C. $(7 \times 5) + 2$
D. $7 \times (5 \times 2)$

10) Which expression is equal to $(3 \times 4) \times 9$

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

11) Which expression is equal to $4 \times (7 \times 5)$

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

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

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

Answers

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

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