Finding Associative Property of Multiplication Name:

Determine which choice is an equivalent equation.

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

A. $(0 \times 8) + 6$
B. $0 \times (8 + 6)$
C. $0 \times (8 \times 6)$
D. $0 + (8 + 6)$

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

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

3) Which expression is equal to $2 \times (4 \times 8)$

A. $2 \times (4 + 8)$
B. $(2 + 4) \times 8$
C. $2 + (4 + 8)$
D. $(2 \times 4) \times 8$

4) Which expression is equal to $3 \times (7 \times 5)$

A. $(3 + 7) + 5$
B. $3 + (7 \times 5)$
C. $(3 \times 7) \times 5$
D. $(3 + 7) \times 5$

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

A. $(2 + 1) + 7$
B. $(2 \times 1) \times 7$
C. $2 + (1 \times 7)$
D. $2 \times (1 + 7)$

6) Which expression is equal to $(1 \times 9) \times 3$

A. $(1 + 9) + 3$
B. $1 + (9 + 3)$
C. $(1 \times 9) + 3$
D. $1 \times (9 \times 3)$

7) Which expression is equal to $10 \times (2 \times 0)$

A. $(10 + 2) \times 0$
B. $(10 \times 2) \times 0$
C. $(10 + 2) + 0$
D. $10 \times (2 + 0)$

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

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

9) Which expression is equal to $(7 \times 2) \times 4$

A. $7 + (2 + 4)$
B. $7 \times (2 \times 4)$
C. $(7 + 2) \times 4$
D. $7 + (2 \times 4)$

10) Which expression is equal to $(5 \times 0) \times 1$

A. $5 \times (0 \times 1)$
B. $5 + (0 + 1)$
C. $(5 \times 0) + 1$
D. $(5 + 0) \times 1$

11) Which expression is equal to $1 \times (0 \times 4)$

A. $(1 + 0) + 4$
B. $1 \times (0 + 4)$
C. $1 + (0 + 4)$
D. $(1 \times 0) \times 4$

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

A. $(7 + 1) + 2$
B. $7 \times (1 \times 2)$
C. $7 + (1 + 2)$
D. $7 \times (1 + 2)$

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.

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C. $0 \times (8 \times 6)$
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D. $(3 + 6) + 9$

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C. $(3 \times 7) \times 5$
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A. $(1 + 9) + 3$
B. $1 + (9 + 3)$
C. $(1 \times 9) + 3$
D. $1 \times (9 \times 3)$

7) Which expression is equal to $10 \times (2 \times 0)$

A. $(10 + 2) \times 0$
B. $(10 \times 2) \times 0$
C. $(10 + 2) + 0$
D. $10 \times (2 + 0)$

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A. $0 + (2 \times 6)$
B. $0 + (2 + 6)$
C. $(0 \times 2) \times 6$
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A. $7 + (2 + 4)$
B. $7 \times (2 \times 4)$
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D. $7 + (2 \times 4)$

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A. $5 \times (0 \times 1)$
B. $5 + (0 + 1)$
C. $(5 \times 0) + 1$
D. $(5 + 0) \times 1$

11) Which expression is equal to $1 \times (0 \times 4)$

A. $(1 + 0) + 4$
B. $1 \times (0 + 4)$
C. $1 + (0 + 4)$
D. $(1 \times 0) \times 4$

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

A. $(7 + 1) + 2$
B. $7 \times (1 \times 2)$
C. $7 + (1 + 2)$
D. $7 \times (1 + 2)$

Answers

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

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