Finding Associative Property of Multiplication

Name:

Determine which choice is an equivalent equation.

1) Which expression is equal to
$7 \times (6 \times 10)$

A. $(7 \times 6) \times 10$
B. $7 + (6 \times 10)$
C. $(7 \times 6) + 10$
D. $(7 + 6) \times 10$

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

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

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

A. $7 + (2 \times 10)$
B. $7 + (2 + 10)$
C. $7 \times (2 \times 10)$
D. $(7 + 2) \times 10$

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

A. $(1 + 8) + 0$
B. $(1 + 8) \times 0$
C. $1 + (8 \times 0)$
D. $1 \times (8 \times 0)$

5) Which expression is equal to
$9 \times (0 \times 10)$

A. $(9 \times 0) + 10$
B. $9 + (0 + 10)$
C. $(9 \times 0) \times 10$
D. $(9 + 0) \times 10$

6) Which expression is equal to
$(4 \times 0) \times 7$

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

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

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

8) Which expression is equal to
$3 \times (8 \times 0)$

A. $(3 \times 8) \times 0$
B. $(3 + 8) \times 0$
C. $(3 \times 8) + 0$
D. $3 \times (8 + 0)$

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

A. $3 \times (4 \times 2)$
B. $3 + (4 \times 2)$
C. $(3 + 4) \times 2$
D. $3 \times (4 + 2)$

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

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

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

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

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

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

Math

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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.

Answers

1) Which expression is equal to
$7 \times (6 \times 10)$
A. $(7 \times 6) \times 10$
B. $7 + (6 \times 10)$
C. $(7 \times 6) + 10$
D. $(7 + 6) \times 10$

2) Which expression is equal to
$1 \times (3 \times 0)$
A. $(1 \times 3) \times 0$
B. $1 + (3 \times 0)$
C. $(1 \times 3) + 0$
D. $1 + (3 + 0)$

3) Which expression is equal to
$(7 \times 2) \times 10$
A. $7 + (2 \times 10)$
B. $7 + (2 + 10)$
C. $7 \times (2 \times 10)$
D. $(7 + 2) \times 10$

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

5) Which expression is equal to
$9 \times (0 \times 10)$
A. $(9 \times 0) + 10$
B. $9 + (0 + 10)$
C. $(9 \times 0) \times 10$
D. $(9 + 0) \times 10$

6) Which expression is equal to
$(4 \times 0) \times 7$
A. $4 + (0 \times 7)$
B. $4 \times (0 \times 7)$
C. $(4 + 0) \times 7$
D. $(4 + 0) + 7$

7) Which expression is equal to
$(8 \times 0) \times 9$
A. $(8 + 0) + 9$
B. $8 \times (0 \times 9)$
C. $(8 \times 0) + 9$
D. $8 + (0 \times 9)$

8) Which expression is equal to
$3 \times (8 \times 0)$
A. $(3 \times 8) \times 0$
B. $(3 + 8) \times 0$
C. $(3 \times 8) + 0$
D. $3 \times (8 + 0)$

9) Which expression is equal to
$(3 \times 4) \times 2$
A. $3 \times (4 \times 2)$
B. $3 + (4 \times 2)$
C. $(3 + 4) \times 2$
D. $3 \times (4 + 2)$

10) Which expression is equal to
$2 \times (6 \times 0)$
A. $(2 + 6) + 0$
B. $(2 \times 6) \times 0$
C. $(2 \times 6) + 0$
D. $2 + (6 \times 0)$

11) Which expression is equal to
$0 \times (6 \times 2)$
A. $0 + (6 \times 2)$
B. $(0 \times 6) + 2$
C. $(0 + 6) + 2$
D. $(0 \times 6) \times 2$

12) Which expression is equal to
$1 \times (0 \times 5)$
A. $1 + (0 + 5)$
B. $(1 \times 0) + 5$
C. $(1 \times 0) \times 5$
D. $(1 + 0) + 5$

Answers

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

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