Finding Associative Property of Multiplication   Name:

Determine which choice is an equivalent equation.

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

2) Which expression is equal to
$0 \times (1 \times 9)$
A. $(0 + 1) \times 9$
B. $(0 + 1) + 9$
C. $0 \times (1 + 9)$
D. $(0 \times 1) \times 9$

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

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

5) Which expression is equal to
$8 \times (3 \times 2)$
A. $(8 + 3) \times 2$
B. $(8 \times 3) \times 2$
C. $(8 + 3) + 2$
D. $(8 \times 3) + 2$

6) Which expression is equal to
$6 \times (8 \times 7)$
A. $(6 \times 8) \times 7$
B. $6 + (8 + 7)$
C. $(6 \times 8) + 7$
D. $6 \times (8 + 7)$

7) Which expression is equal to
$10 \times (0 \times 1)$
A. $(10 \times 0) \times 1$
B. $10 \times (0 + 1)$
C. $(10 + 0) \times 1$
D. $10 + (0 + 1)$

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

9) Which expression is equal to
$5 \times (4 \times 10)$
A. $(5 \times 4) \times 10$
B. $5 + (4 + 10)$
C. $5 + (4 \times 10)$
D. $5 \times (4 + 10)$

10) Which expression is equal to
$(5 \times 8) \times 0$
A. $5 + (8 + 0)$
B. $5 \times (8 + 0)$
C. $5 \times (8 \times 0)$
D. $(5 + 8) \times 0$

11) Which expression is equal to
$2 \times (5 \times 0)$
A. $(2 \times 5) \times 0$
B. $2 + (5 + 0)$
C. $2 + (5 \times 0)$
D. $(2 \times 5) + 0$

12) Which expression is equal to
$(3 \times 1) \times 8$
A. $3 \times (1 + 8)$
B. $3 \times (1 \times 8)$
C. $3 + (1 + 8)$
D. $3 + (1 \times 8)$

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

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

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B. $3 \times (1 \times 8)$
C. $3 + (1 + 8)$
D. $3 + (1 \times 8)$

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

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