Determine which choice is an equivalent equation.

1) Which expression is equal to
(5 × 1) × 8

A. 5 × (1 + 8)
B. 5 + (1 × 8)
C. 5 × (1 × 8)
D. (5 × 1) + 8

2) Which expression is equal to
8 × (10 × 5)

A. 8 × (10 + 5)
B. (8 + 10) × 5
C. (8 × 10) × 5
D. 8 + (10 × 5)

1. _____

2. _____

3. _____

3) Which expression is equal to
(2 × 4) × 9

A. (2 + 4) × 9
B. 2 + (4 + 9)
C. (2 + 4) + 9
D. 2 × (4 × 9)

4) Which expression is equal to
(0 × 2) × 1

A. (0 × 2) + 1
B. 0 × (2 + 1)
C. 0 × (2 × 1)
D. (0 + 2) × 1

4. _____

5. _____

6. _____

5) Which expression is equal to
(8 × 6) × 2

A. 8 × (6 × 2)
B. 8 × (6 + 2)
C. (8 + 6) × 2
D. (8 × 6) + 2

6) Which expression is equal to
(9 × 3) × 5

A. 9 × (3 × 5)
B. (9 + 3) × 5
C. 9 + (3 + 5)
D. 9 × (3 + 5)

7. _____

8. _____

9. _____

7) Which expression is equal to
6 × (8 × 1)

A. (6 × 8) × 1
B. (6 × 8) + 1
C. (6 + 8) × 1
D. 6 + (8 + 1)

8) Which expression is equal to
2 × (5 × 6)

A. (2 × 5) × 6
B. 2 + (5 + 6)
C. 2 + (5 × 6)
D. (2 + 5) + 6

10. _____

11. _____

12. _____

9) Which expression is equal to
2 × (0 × 5)

A. (2 × 0) × 5
B. (2 × 0) + 5
C. (2 + 0) × 5
D. 2 + (0 + 5)

10) Which expression is equal to
2 × (8 × 9)

A. 2 + (8 × 9)
B. 2 + (8 + 9)
C. (2 + 8) × 9
D. (2 × 8) × 9

11) Which expression is equal to
2 × (6 × 4)

A. (2 + 6) + 4
B. 2 + (6 + 4)
C. (2 × 6) × 4
D. (2 + 6) × 4

12) Which expression is equal to
(4 × 2) × 6

A. 4 × (2 + 6)
B. (4 × 2) + 6
C. 4 + (2 × 6)
D. 4 × (2 × 6)

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

Name: **Answer Key**

Determine which choice is an equivalent equation.

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

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

1.   **C**

2.   **C**

3.   **D**

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

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

4.   **C**

5.   **A**

6.   **A**

5) Which expression is equal to
$(8 \times 6) \times 2$
A. $8 \times (6 \times 2)$
B. $8 \times (6 + 2)$
C. $(8 + 6) \times 2$
D. $(8 \times 6) + 2$

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

7.   **A**

8.   **A**

9.   **A**

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

8) Which expression is equal to
$2 \times (5 \times 6)$
A. $(2 \times 5) \times 6$
B. $2 + (5 + 6)$
C. $2 + (5 \times 6)$
D. $(2 + 5) + 6$

10.   **D**

11.   **C**

12.   **D**

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

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

11) Which expression is equal to
$2 \times (6 \times 4)$
A. $(2 + 6) + 4$
B. $2 + (6 + 4)$
C. $(2 \times 6) \times 4$
D. $(2 + 6) \times 4$

12) Which expression is equal to
$(4 \times 2) \times 6$
A. $4 \times (2 + 6)$
B. $(4 \times 2) + 6$
C. $4 + (2 \times 6)$
D. $4 \times (2 \times 6)$

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