Name:

Determine which choice is an equivalent equation.

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

 A. $(6 + 10) \times 2$
 B. $(6 \times 10) + 2$
 C. $6 + (10 \times 2)$
 D. $6 \times (10 \times 2)$

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

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

3) Which expression is equal to
$5 \times (8 \times 10)$

 A. $5 \times (8 + 10)$
 B. $5 + (8 \times 10)$
 C. $(5 \times 8) \times 10$
 D. $(5 + 8) \times 10$

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

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

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

 A. $7 \times (10 + 1)$
 B. $(7 \times 10) + 1$
 C. $(7 + 10) + 1$
 D. $7 \times (10 \times 1)$

6) Which expression is equal to
$5 \times (4 \times 2)$

 A. $(5 \times 4) + 2$
 B. $(5 + 4) \times 2$
 C. $(5 \times 4) \times 2$
 D. $5 \times (4 + 2)$

7) Which expression is equal to
$(4 \times 6) \times 1$

 A. $4 + (6 + 1)$
 B. $(4 + 6) \times 1$
 C. $(4 + 6) + 1$
 D. $4 \times (6 \times 1)$

8) Which expression is equal to
$5 \times (8 \times 9)$

 A. $(5 \times 8) \times 9$
 B. $5 \times (8 + 9)$
 C. $(5 + 8) + 9$
 D. $(5 + 8) \times 9$

9) Which expression is equal to
$5 \times (8 \times 9)$

 A. $5 + (8 + 9)$
 B. $(5 \times 8) + 9$
 C. $5 + (8 \times 9)$
 D. $(5 \times 8) \times 9$

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

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

11) Which expression is equal to
$(1 \times 7) \times 8$

 A. $(1 + 7) \times 8$
 B. $1 \times (7 \times 8)$
 C. $1 \times (7 + 8)$
 D. $(1 + 7) + 8$

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

 A. $0 + (10 + 7)$
 B. $(0 \times 10) \times 7$
 C. $(0 + 10) \times 7$
 D. $(0 \times 10) + 7$

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								

Name: **Answer Key**

Determine which choice is an equivalent equation.

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

2) Which expression is equal to
$3 \times (8 \times 4)$
   - A. $3 + (8 \times 4)$
   - B. $3 \times (8 + 4)$
   - C. $(3 \times 8) + 4$
   - D. $(3 \times 8) \times 4$

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

4) Which expression is equal to
$(8 \times 4) \times 3$
   - A. $8 + (4 + 3)$
   - B. $(8 \times 4) + 3$
   - C. $8 \times (4 \times 3)$
   - D. $(8 + 4) \times 3$

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

6) Which expression is equal to
$5 \times (4 \times 2)$
   - A. $(5 \times 4) + 2$
   - B. $(5 + 4) \times 2$
   - C. $(5 \times 4) \times 2$
   - D. $5 \times (4 + 2)$

7) Which expression is equal to
$(4 \times 6) \times 1$
   - A. $4 + (6 + 1)$
   - B. $(4 + 6) \times 1$
   - C. $(4 + 6) + 1$
   - D. $4 \times (6 \times 1)$

8) Which expression is equal to
$5 \times (8 \times 9)$
   - A. $(5 \times 8) \times 9$
   - B. $5 \times (8 + 9)$
   - C. $(5 + 8) + 9$
   - D. $(5 + 8) \times 9$

9) Which expression is equal to
$5 \times (8 \times 9)$
   - A. $5 + (8 + 9)$
   - B. $(5 \times 8) + 9$
   - C. $5 + (8 \times 9)$
   - D. $(5 \times 8) \times 9$

10) Which expression is equal to
$(2 \times 7) \times 0$
   - A. $2 \times (7 \times 0)$
   - B. $(2 + 7) \times 0$
   - C. $(2 + 7) + 0$
   - D. $2 + (7 \times 0)$

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

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

Answers

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

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