

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$(2 \times 4) \times 9$

A. $2 \times (4 \times 9)$

B. $(2 + 4) + 9$

C. $(2 \times 4) + 9$

D. $2 \times (4 + 9)$

- 2) Which expression is equal to

$(3 \times 2) \times 9$

A. $3 + (2 + 9)$

B. $3 + (2 \times 9)$

C. $3 \times (2 \times 9)$

D. $3 \times (2 + 9)$

- 3) Which expression is equal to

$(10 \times 8) \times 5$

A. $10 + (8 \times 5)$

B. $10 \times (8 \times 5)$

C. $(10 + 8) + 5$

D. $10 + (8 + 5)$

- 4) Which expression is equal to

$(4 \times 5) \times 3$

A. $(4 \times 5) + 3$

B. $4 + (5 + 3)$

C. $4 \times (5 + 3)$

D. $4 \times (5 \times 3)$

- 5) Which expression is equal to

$3 \times (5 \times 4)$

A. $3 + (5 + 4)$

B. $(3 + 5) + 4$

C. $(3 \times 5) \times 4$

D. $3 + (5 \times 4)$

- 6) Which expression is equal to

$3 \times (7 \times 1)$

A. $(3 + 7) \times 1$

B. $3 \times (7 + 1)$

C. $(3 \times 7) \times 1$

D. $(3 + 7) + 1$

- 7) Which expression is equal to

$4 \times (6 \times 2)$

A. $(4 \times 6) \times 2$

B. $(4 + 6) + 2$

C. $4 + (6 \times 2)$

D. $4 + (6 + 2)$

- 8) Which expression is equal to

$(6 \times 0) \times 5$

A. $(6 + 0) + 5$

B. $(6 + 0) \times 5$

C. $6 \times (0 \times 5)$

D. $6 \times (0 + 5)$

- 9) Which expression is equal to

$(10 \times 1) \times 3$

A. $10 \times (1 \times 3)$

B. $10 \times (1 + 3)$

C. $(10 \times 1) + 3$

D. $(10 + 1) \times 3$

- 10) Which expression is equal to

$10 \times (3 \times 7)$

A. $10 + (3 + 7)$

B. $(10 + 3) \times 7$

C. $(10 \times 3) \times 7$

D. $10 + (3 \times 7)$

- 11) Which expression is equal to

$(5 \times 4) \times 3$

A. $5 \times (4 \times 3)$

B. $5 + (4 \times 3)$

C. $(5 \times 4) + 3$

D. $5 \times (4 + 3)$

- 12) Which expression is equal to

$5 \times (4 \times 2)$

A. $5 + (4 + 2)$

B. $(5 \times 4) \times 2$

C. $(5 + 4) + 2$

D. $(5 + 4) \times 2$

1. _____

2. _____

3. _____

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8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $(2 \times 4) \times 9$
A. $2 \times (4 \times 9)$
B. $(2 + 4) + 9$
C. $(2 \times 4) + 9$
D. $2 \times (4 + 9)$
- 2) Which expression is equal to $(3 \times 2) \times 9$
A. $3 + (2 + 9)$
B. $3 + (2 \times 9)$
C. $3 \times (2 \times 9)$
D. $3 \times (2 + 9)$
- 3) Which expression is equal to $(10 \times 8) \times 5$
A. $10 + (8 \times 5)$
B. $10 \times (8 \times 5)$
C. $(10 + 8) + 5$
D. $10 + (8 + 5)$
- 4) Which expression is equal to $(4 \times 5) \times 3$
A. $(4 \times 5) + 3$
B. $4 + (5 + 3)$
C. $4 \times (5 + 3)$
D. $4 \times (5 \times 3)$
- 5) Which expression is equal to $3 \times (5 \times 4)$
A. $3 + (5 + 4)$
B. $(3 + 5) + 4$
C. $(3 \times 5) \times 4$
D. $3 + (5 \times 4)$
- 6) Which expression is equal to $3 \times (7 \times 1)$
A. $(3 + 7) \times 1$
B. $3 \times (7 + 1)$
C. $(3 \times 7) \times 1$
D. $(3 + 7) + 1$
- 7) Which expression is equal to $4 \times (6 \times 2)$
A. $(4 \times 6) \times 2$
B. $(4 + 6) + 2$
C. $4 + (6 \times 2)$
D. $4 + (6 + 2)$
- 8) Which expression is equal to $(6 \times 0) \times 5$
A. $(6 + 0) + 5$
B. $(6 + 0) \times 5$
C. $6 \times (0 \times 5)$
D. $6 \times (0 + 5)$
- 9) Which expression is equal to $(10 \times 1) \times 3$
A. $10 \times (1 \times 3)$
B. $10 \times (1 + 3)$
C. $(10 \times 1) + 3$
D. $(10 + 1) \times 3$
- 10) Which expression is equal to $10 \times (3 \times 7)$
A. $10 + (3 + 7)$
B. $(10 + 3) \times 7$
C. $(10 \times 3) \times 7$
D. $10 + (3 \times 7)$
- 11) Which expression is equal to $(5 \times 4) \times 3$
A. $5 \times (4 \times 3)$
B. $5 + (4 \times 3)$
C. $(5 \times 4) + 3$
D. $5 \times (4 + 3)$
- 12) Which expression is equal to $5 \times (4 \times 2)$
A. $5 + (4 + 2)$
B. $(5 \times 4) \times 2$
C. $(5 + 4) + 2$
D. $(5 + 4) \times 2$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$(10 \times 7) \times 4$

A. $(10 \times 7) + 4$

B. $(10 + 7) \times 4$

C. $(10 + 7) + 4$

D. $10 \times (7 \times 4)$

- 2) Which expression is equal to

$(4 \times 7) \times 0$

A. $4 \times (7 \times 0)$

B. $4 + (7 + 0)$

C. $(4 + 7) + 0$

D. $(4 \times 7) + 0$

- 3) Which expression is equal to

$5 \times (4 \times 7)$

A. $(5 + 4) + 7$

B. $(5 \times 4) + 7$

C. $5 + (4 \times 7)$

D. $(5 \times 4) \times 7$

- 4) Which expression is equal to

$9 \times (5 \times 2)$

A. $(9 + 5) + 2$

B. $9 + (5 + 2)$

C. $(9 \times 5) \times 2$

D. $9 + (5 \times 2)$

- 5) Which expression is equal to

$10 \times (2 \times 9)$

A. $10 \times (2 + 9)$

B. $(10 \times 2) \times 9$

C. $(10 \times 2) + 9$

D. $(10 + 2) \times 9$

- 6) Which expression is equal to

$10 \times (5 \times 6)$

A. $(10 \times 5) \times 6$

B. $(10 + 5) + 6$

C. $(10 + 5) \times 6$

D. $(10 \times 5) + 6$

- 7) Which expression is equal to

$(9 \times 5) \times 3$

A. $9 + (5 + 3)$

B. $(9 + 5) + 3$

C. $9 \times (5 \times 3)$

D. $(9 + 5) \times 3$

- 8) Which expression is equal to

$(6 \times 7) \times 3$

A. $6 \times (7 + 3)$

B. $(6 + 7) + 3$

C. $6 \times (7 \times 3)$

D. $6 + (7 + 3)$

- 9) Which expression is equal to

$5 \times (7 \times 2)$

A. $(5 \times 7) \times 2$

B. $(5 + 7) + 2$

C. $(5 \times 7) + 2$

D. $(5 + 7) \times 2$

- 10) Which expression is equal to

$2 \times (3 \times 9)$

A. $(2 \times 3) + 9$

B. $(2 \times 3) \times 9$

C. $(2 + 3) + 9$

D. $(2 + 3) \times 9$

- 11) Which expression is equal to

$(6 \times 8) \times 1$

A. $6 \times (8 \times 1)$

B. $6 \times (8 + 1)$

C. $6 + (8 + 1)$

D. $(6 \times 8) + 1$

- 12) Which expression is equal to

$(10 \times 1) \times 7$

A. $10 \times (1 \times 7)$

B. $10 \times (1 + 7)$

C. $(10 + 1) \times 7$

D. $(10 \times 1) + 7$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $(10 \times 7) \times 4$
A. $(10 \times 7) + 4$
B. $(10 + 7) \times 4$
C. $(10 + 7) + 4$
D. $10 \times (7 \times 4)$
- 2) Which expression is equal to $(4 \times 7) \times 0$
A. $4 \times (7 \times 0)$
B. $4 + (7 + 0)$
C. $(4 + 7) + 0$
D. $(4 \times 7) + 0$
- 3) Which expression is equal to $5 \times (4 \times 7)$
A. $(5 + 4) + 7$
B. $(5 \times 4) + 7$
C. $5 + (4 \times 7)$
D. $(5 \times 4) \times 7$
- 4) Which expression is equal to $9 \times (5 \times 2)$
A. $(9 + 5) + 2$
B. $9 + (5 + 2)$
C. $(9 \times 5) \times 2$
D. $9 + (5 \times 2)$
- 5) Which expression is equal to $10 \times (2 \times 9)$
A. $10 \times (2 + 9)$
B. $(10 \times 2) \times 9$
C. $(10 \times 2) + 9$
D. $(10 + 2) \times 9$
- 6) Which expression is equal to $10 \times (5 \times 6)$
A. $(10 \times 5) \times 6$
B. $(10 + 5) + 6$
C. $(10 + 5) \times 6$
D. $(10 \times 5) + 6$
- 7) Which expression is equal to $(9 \times 5) \times 3$
A. $9 + (5 + 3)$
B. $(9 + 5) + 3$
C. $9 \times (5 \times 3)$
D. $(9 + 5) \times 3$
- 8) Which expression is equal to $(6 \times 7) \times 3$
A. $6 \times (7 + 3)$
B. $(6 + 7) + 3$
C. $6 \times (7 \times 3)$
D. $6 + (7 + 3)$
- 9) Which expression is equal to $5 \times (7 \times 2)$
A. $(5 \times 7) \times 2$
B. $(5 + 7) + 2$
C. $(5 \times 7) + 2$
D. $(5 + 7) \times 2$
- 10) Which expression is equal to $2 \times (3 \times 9)$
A. $(2 \times 3) + 9$
B. $(2 \times 3) \times 9$
C. $(2 + 3) + 9$
D. $(2 + 3) \times 9$
- 11) Which expression is equal to $(6 \times 8) \times 1$
A. $6 \times (8 \times 1)$
B. $6 \times (8 + 1)$
C. $6 + (8 + 1)$
D. $(6 \times 8) + 1$
- 12) Which expression is equal to $(10 \times 1) \times 7$
A. $10 \times (1 \times 7)$
B. $10 \times (1 + 7)$
C. $(10 + 1) \times 7$
D. $(10 \times 1) + 7$

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

**Determine which choice is an equivalent equation.****Answers****1)** Which expression is equal to

$(6 \times 10) \times 7$

A. $6 \times (10 + 7)$

B. $(6 + 10) \times 7$

C. $6 \times (10 \times 7)$

D. $(6 + 10) + 7$

2) Which expression is equal to

$7 \times (10 \times 0)$

A. $(7 \times 10) \times 0$

B. $7 + (10 \times 0)$

C. $7 \times (10 + 0)$

D. $(7 \times 10) + 0$

3) Which expression is equal to

$7 \times (8 \times 3)$

A. $(7 + 8) + 3$

B. $7 + (8 + 3)$

C. $(7 \times 8) + 3$

D. $(7 \times 8) \times 3$

4) Which expression is equal to

$4 \times (7 \times 2)$

A. $4 + (7 + 2)$

B. $(4 \times 7) + 2$

C. $(4 + 7) \times 2$

D. $(4 \times 7) \times 2$

5) Which expression is equal to

$(5 \times 8) \times 3$

A. $(5 + 8) + 3$

B. $(5 \times 8) + 3$

C. $5 \times (8 + 3)$

D. $5 \times (8 \times 3)$

6) Which expression is equal to

$8 \times (10 \times 5)$

A. $(8 + 10) + 5$

B. $8 + (10 \times 5)$

C. $(8 \times 10) \times 5$

D. $8 \times (10 + 5)$

7) Which expression is equal to

$(0 \times 10) \times 8$

A. $(0 + 10) + 8$

B. $0 + (10 \times 8)$

C. $0 \times (10 \times 8)$

D. $0 \times (10 + 8)$

8) Which expression is equal to

$10 \times (2 \times 4)$

A. $(10 \times 2) \times 4$

B. $(10 \times 2) + 4$

C. $(10 + 2) \times 4$

D. $10 + (2 + 4)$

9) Which expression is equal to

$0 \times (3 \times 4)$

A. $(0 \times 3) \times 4$

B. $(0 \times 3) + 4$

C. $0 + (3 \times 4)$

D. $(0 + 3) \times 4$

10) Which expression is equal to

$9 \times (3 \times 10)$

A. $(9 \times 3) \times 10$

B. $(9 \times 3) + 10$

C. $(9 + 3) \times 10$

D. $(9 + 3) + 10$

11) Which expression is equal to

$(1 \times 10) \times 6$

A. $1 + (10 \times 6)$

B. $1 + (10 + 6)$

C. $1 \times (10 \times 6)$

D. $(1 + 10) \times 6$

12) Which expression is equal to

$3 \times (0 \times 6)$

A. $3 \times (0 + 6)$

B. $(3 \times 0) \times 6$

C. $(3 + 0) \times 6$

D. $(3 + 0) + 6$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $(6 \times 10) \times 7$
A. $6 \times (10 + 7)$
B. $(6 + 10) \times 7$
C. $6 \times (10 \times 7)$
D. $(6 + 10) + 7$
- 2) Which expression is equal to $7 \times (10 \times 0)$
A. $(7 \times 10) \times 0$
B. $7 + (10 \times 0)$
C. $7 \times (10 + 0)$
D. $(7 \times 10) + 0$
- 3) Which expression is equal to $7 \times (8 \times 3)$
A. $(7 + 8) + 3$
B. $7 + (8 + 3)$
C. $(7 \times 8) + 3$
D. $(7 \times 8) \times 3$
- 4) Which expression is equal to $4 \times (7 \times 2)$
A. $4 + (7 + 2)$
B. $(4 \times 7) + 2$
C. $(4 + 7) \times 2$
D. $(4 \times 7) \times 2$
- 5) Which expression is equal to $(5 \times 8) \times 3$
A. $(5 + 8) + 3$
B. $(5 \times 8) + 3$
C. $5 \times (8 + 3)$
D. $5 \times (8 \times 3)$
- 6) Which expression is equal to $8 \times (10 \times 5)$
A. $(8 + 10) + 5$
B. $8 + (10 \times 5)$
C. $(8 \times 10) \times 5$
D. $8 \times (10 + 5)$
- 7) Which expression is equal to $(0 \times 10) \times 8$
A. $(0 + 10) + 8$
B. $0 + (10 \times 8)$
C. $0 \times (10 \times 8)$
D. $0 \times (10 + 8)$
- 8) Which expression is equal to $10 \times (2 \times 4)$
A. $(10 \times 2) \times 4$
B. $(10 \times 2) + 4$
C. $(10 + 2) \times 4$
D. $10 + (2 + 4)$
- 9) Which expression is equal to $0 \times (3 \times 4)$
A. $(0 \times 3) \times 4$
B. $(0 \times 3) + 4$
C. $0 + (3 \times 4)$
D. $(0 + 3) \times 4$
- 10) Which expression is equal to $9 \times (3 \times 10)$
A. $(9 \times 3) \times 10$
B. $(9 \times 3) + 10$
C. $(9 + 3) \times 10$
D. $(9 + 3) + 10$
- 11) Which expression is equal to $(1 \times 10) \times 6$
A. $1 + (10 \times 6)$
B. $1 + (10 + 6)$
C. $1 \times (10 \times 6)$
D. $(1 + 10) \times 6$
- 12) Which expression is equal to $3 \times (0 \times 6)$
A. $3 \times (0 + 6)$
B. $(3 \times 0) \times 6$
C. $(3 + 0) \times 6$
D. $(3 + 0) + 6$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$(6 \times 10) \times 1$

A. $6 \times (10 + 1)$

B. $(6 \times 10) + 1$

C. $6 \times (10 \times 1)$

D. $6 + (10 \times 1)$

- 2) Which expression is equal to

$3 \times (1 \times 9)$

A. $3 + (1 \times 9)$

B. $(3 + 1) + 9$

C. $(3 \times 1) \times 9$

D. $3 + (1 + 9)$

- 3) Which expression is equal to

$1 \times (8 \times 5)$

A. $1 \times (8 + 5)$

B. $(1 \times 8) + 5$

C. $(1 \times 8) \times 5$

D. $(1 + 8) \times 5$

- 4) Which expression is equal to

$5 \times (7 \times 9)$

A. $(5 + 7) + 9$

B. $(5 \times 7) \times 9$

C. $5 \times (7 + 9)$

D. $(5 + 7) \times 9$

- 5) Which expression is equal to

$2 \times (7 \times 1)$

A. $2 \times (7 + 1)$

B. $(2 + 7) + 1$

C. $(2 \times 7) \times 1$

D. $2 + (7 + 1)$

- 6) Which expression is equal to

$1 \times (10 \times 0)$

A. $(1 \times 10) + 0$

B. $1 + (10 \times 0)$

C. $(1 + 10) \times 0$

D. $(1 \times 10) \times 0$

- 7) Which expression is equal to

$6 \times (1 \times 0)$

A. $(6 + 1) + 0$

B. $6 + (1 \times 0)$

C. $(6 \times 1) \times 0$

D. $(6 \times 1) + 0$

- 8) Which expression is equal to

$(8 \times 6) \times 9$

A. $8 + (6 + 9)$

B. $8 \times (6 \times 9)$

C. $(8 \times 6) + 9$

D. $8 + (6 \times 9)$

- 9) Which expression is equal to

$(6 \times 4) \times 0$

A. $6 \times (4 \times 0)$

B. $(6 + 4) + 0$

C. $6 \times (4 + 0)$

D. $6 + (4 + 0)$

- 10) Which expression is equal to

$4 \times (7 \times 6)$

A. $(4 \times 7) \times 6$

B. $4 + (7 \times 6)$

C. $4 \times (7 + 6)$

D. $(4 + 7) + 6$

- 11) Which expression is equal to

$(9 \times 0) \times 2$

A. $9 \times (0 \times 2)$

B. $9 + (0 \times 2)$

C. $(9 + 0) \times 2$

D. $(9 + 0) + 2$

- 12) Which expression is equal to

$2 \times (7 \times 3)$

A. $2 + (7 \times 3)$

B. $(2 + 7) \times 3$

C. $(2 \times 7) \times 3$

D. $2 \times (7 + 3)$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $(6 \times 10) \times 1$
A. $6 \times (10 + 1)$
B. $(6 \times 10) + 1$
C. $6 \times (10 \times 1)$
D. $6 + (10 \times 1)$
- 2) Which expression is equal to $3 \times (1 \times 9)$
A. $3 + (1 \times 9)$
B. $(3 + 1) + 9$
C. $(3 \times 1) \times 9$
D. $3 + (1 + 9)$
- 3) Which expression is equal to $1 \times (8 \times 5)$
A. $1 \times (8 + 5)$
B. $(1 \times 8) + 5$
C. $(1 \times 8) \times 5$
D. $(1 + 8) \times 5$
- 4) Which expression is equal to $5 \times (7 \times 9)$
A. $(5 + 7) + 9$
B. $(5 \times 7) \times 9$
C. $5 \times (7 + 9)$
D. $(5 + 7) \times 9$
- 5) Which expression is equal to $2 \times (7 \times 1)$
A. $2 \times (7 + 1)$
B. $(2 + 7) + 1$
C. $(2 \times 7) \times 1$
D. $2 + (7 + 1)$
- 6) Which expression is equal to $1 \times (10 \times 0)$
A. $(1 \times 10) + 0$
B. $1 + (10 \times 0)$
C. $(1 + 10) \times 0$
D. $(1 \times 10) \times 0$
- 7) Which expression is equal to $6 \times (1 \times 0)$
A. $(6 + 1) + 0$
B. $6 + (1 \times 0)$
C. $(6 \times 1) \times 0$
D. $(6 \times 1) + 0$
- 8) Which expression is equal to $(8 \times 6) \times 9$
A. $8 + (6 + 9)$
B. $8 \times (6 \times 9)$
C. $(8 \times 6) + 9$
D. $8 + (6 \times 9)$
- 9) Which expression is equal to $(6 \times 4) \times 0$
A. $6 \times (4 \times 0)$
B. $(6 + 4) + 0$
C. $6 \times (4 + 0)$
D. $6 + (4 + 0)$
- 10) Which expression is equal to $4 \times (7 \times 6)$
A. $(4 \times 7) \times 6$
B. $4 + (7 \times 6)$
C. $4 \times (7 + 6)$
D. $(4 + 7) + 6$
- 11) Which expression is equal to $(9 \times 0) \times 2$
A. $9 \times (0 \times 2)$
B. $9 + (0 \times 2)$
C. $(9 + 0) \times 2$
D. $(9 + 0) + 2$
- 12) Which expression is equal to $2 \times (7 \times 3)$
A. $2 + (7 \times 3)$
B. $(2 + 7) \times 3$
C. $(2 \times 7) \times 3$
D. $2 \times (7 + 3)$

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

**Determine which choice is an equivalent equation.****Answers****1)** Which expression is equal to

$(4 \times 6) \times 8$

A. $(4 + 6) + 8$

B. $(4 + 6) \times 8$

C. $4 \times (6 \times 8)$

D. $4 + (6 \times 8)$

2) Which expression is equal to

$(7 \times 3) \times 2$

A. $(7 + 3) \times 2$

B. $7 \times (3 + 2)$

C. $7 \times (3 \times 2)$

D. $7 + (3 + 2)$

3) Which expression is equal to

$8 \times (6 \times 1)$

A. $(8 \times 6) \times 1$

B. $(8 \times 6) + 1$

C. $(8 + 6) + 1$

D. $8 + (6 \times 1)$

4) Which expression is equal to

$(10 \times 2) \times 7$

A. $(10 + 2) \times 7$

B. $10 \times (2 \times 7)$

C. $10 + (2 + 7)$

D. $(10 \times 2) + 7$

5) Which expression is equal to

$7 \times (0 \times 5)$

A. $(7 \times 0) \times 5$

B. $7 + (0 \times 5)$

C. $(7 + 0) \times 5$

D. $7 + (0 + 5)$

6) Which expression is equal to

$(7 \times 0) \times 6$

A. $(7 + 0) + 6$

B. $7 \times (0 + 6)$

C. $7 \times (0 \times 6)$

D. $(7 \times 0) + 6$

7) Which expression is equal to

$(1 \times 3) \times 9$

A. $1 \times (3 \times 9)$

B. $1 + (3 \times 9)$

C. $(1 + 3) \times 9$

D. $(1 \times 3) + 9$

8) Which expression is equal to

$(3 \times 9) \times 8$

A. $(3 + 9) + 8$

B. $3 + (9 + 8)$

C. $3 \times (9 \times 8)$

D. $3 + (9 \times 8)$

9) Which expression is equal to

$5 \times (10 \times 8)$

A. $(5 \times 10) \times 8$

B. $(5 \times 10) + 8$

C. $5 + (10 + 8)$

D. $(5 + 10) \times 8$

10) Which expression is equal to

$1 \times (8 \times 5)$

A. $(1 \times 8) \times 5$

B. $1 \times (8 + 5)$

C. $(1 + 8) \times 5$

D. $1 + (8 \times 5)$

11) Which expression is equal to

$2 \times (7 \times 1)$

A. $(2 + 7) + 1$

B. $(2 \times 7) \times 1$

C. $2 + (7 + 1)$

D. $(2 \times 7) + 1$

12) Which expression is equal to

$(7 \times 5) \times 10$

A. $7 + (5 + 10)$

B. $7 \times (5 + 10)$

C. $7 \times (5 \times 10)$

D. $(7 + 5) + 10$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers****1)** Which expression is equal to

$(4 \times 6) \times 8$

A. $(4 + 6) + 8$

B. $(4 + 6) \times 8$

C. $4 \times (6 \times 8)$

D. $4 + (6 \times 8)$

2) Which expression is equal to

$(7 \times 3) \times 2$

A. $(7 + 3) \times 2$

B. $7 \times (3 + 2)$

C. $7 \times (3 \times 2)$

D. $7 + (3 + 2)$

3) Which expression is equal to

$8 \times (6 \times 1)$

A. $(8 \times 6) \times 1$

B. $(8 \times 6) + 1$

C. $(8 + 6) + 1$

D. $8 + (6 \times 1)$

4) Which expression is equal to

$(10 \times 2) \times 7$

A. $(10 + 2) \times 7$

B. $10 \times (2 \times 7)$

C. $10 + (2 + 7)$

D. $(10 \times 2) + 7$

5) Which expression is equal to

$7 \times (0 \times 5)$

A. $(7 \times 0) \times 5$

B. $7 + (0 \times 5)$

C. $(7 + 0) \times 5$

D. $7 + (0 + 5)$

6) Which expression is equal to

$(7 \times 0) \times 6$

A. $(7 + 0) + 6$

B. $7 \times (0 + 6)$

C. $7 \times (0 \times 6)$

D. $(7 \times 0) + 6$

7) Which expression is equal to

$(1 \times 3) \times 9$

A. $1 \times (3 \times 9)$

B. $1 + (3 \times 9)$

C. $(1 + 3) \times 9$

D. $(1 \times 3) + 9$

8) Which expression is equal to

$(3 \times 9) \times 8$

A. $(3 + 9) + 8$

B. $3 + (9 + 8)$

C. $3 \times (9 \times 8)$

D. $3 + (9 \times 8)$

9) Which expression is equal to

$5 \times (10 \times 8)$

A. $(5 \times 10) \times 8$

B. $(5 \times 10) + 8$

C. $5 + (10 + 8)$

D. $(5 + 10) \times 8$

10) Which expression is equal to

$1 \times (8 \times 5)$

A. $(1 \times 8) \times 5$

B. $1 \times (8 + 5)$

C. $(1 + 8) \times 5$

D. $1 + (8 \times 5)$

11) Which expression is equal to

$2 \times (7 \times 1)$

A. $(2 + 7) + 1$

B. $(2 \times 7) \times 1$

C. $2 + (7 + 1)$

D. $(2 \times 7) + 1$

12) Which expression is equal to

$(7 \times 5) \times 10$

A. $7 + (5 + 10)$

B. $7 \times (5 + 10)$

C. $7 \times (5 \times 10)$

D. $(7 + 5) + 10$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$8 \times (1 \times 3)$

A. $(8 \times 1) \times 3$

B. $(8 + 1) + 3$

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

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

- 2) Which expression is equal to

$(1 \times 6) \times 10$

A. $1 \times (6 \times 10)$

B. $1 + (6 + 10)$

C. $(1 + 6) \times 10$

D. $(1 \times 6) + 10$

- 3) Which expression is equal to

$(0 \times 1) \times 3$

A. $(0 + 1) \times 3$

B. $0 + (1 \times 3)$

C. $0 + (1 + 3)$

D. $0 \times (1 \times 3)$

- 4) Which expression is equal to

$(10 \times 3) \times 2$

A. $10 \times (3 \times 2)$

B. $(10 \times 3) + 2$

C. $(10 + 3) + 2$

D. $10 \times (3 + 2)$

- 5) Which expression is equal to

$10 \times (3 \times 2)$

A. $10 \times (3 + 2)$

B. $(10 \times 3) + 2$

C. $(10 \times 3) \times 2$

D. $10 + (3 + 2)$

- 6) Which expression is equal to

$5 \times (6 \times 10)$

A. $(5 \times 6) + 10$

B. $(5 \times 6) \times 10$

C. $5 + (6 + 10)$

D. $5 + (6 \times 10)$

- 7) Which expression is equal to

$(5 \times 1) \times 4$

A. $5 \times (1 \times 4)$

B. $5 \times (1 + 4)$

C. $(5 \times 1) + 4$

D. $(5 + 1) \times 4$

- 8) Which expression is equal to

$0 \times (4 \times 7)$

A. $0 \times (4 + 7)$

B. $(0 \times 4) \times 7$

C. $0 + (4 \times 7)$

D. $(0 + 4) \times 7$

- 9) Which expression is equal to

$(9 \times 7) \times 3$

A. $9 \times (7 \times 3)$

B. $9 + (7 + 3)$

C. $(9 + 7) + 3$

D. $9 \times (7 + 3)$

- 10) Which expression is equal to

$(7 \times 6) \times 8$

A. $(7 + 6) \times 8$

B. $7 \times (6 \times 8)$

C. $7 + (6 + 8)$

D. $7 + (6 \times 8)$

- 11) Which expression is equal to

$(7 \times 0) \times 1$

A. $7 \times (0 \times 1)$

B. $7 + (0 \times 1)$

C. $(7 \times 0) + 1$

D. $(7 + 0) + 1$

- 12) Which expression is equal to

$(8 \times 9) \times 10$

A. $8 \times (9 \times 10)$

B. $(8 + 9) + 10$

C. $(8 \times 9) + 10$

D. $(8 + 9) \times 10$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $8 \times (1 \times 3)$
A. $(8 \times 1) \times 3$
B. $(8 + 1) + 3$
C. $8 \times (1 + 3)$
D. $(8 + 1) \times 3$
- 2) Which expression is equal to $(1 \times 6) \times 10$
A. $1 \times (6 \times 10)$
B. $1 + (6 + 10)$
C. $(1 + 6) \times 10$
D. $(1 \times 6) + 10$
- 3) Which expression is equal to $(0 \times 1) \times 3$
A. $(0 + 1) \times 3$
B. $0 + (1 \times 3)$
C. $0 + (1 + 3)$
D. $0 \times (1 \times 3)$
- 4) Which expression is equal to $(10 \times 3) \times 2$
A. $10 \times (3 \times 2)$
B. $(10 \times 3) + 2$
C. $(10 + 3) + 2$
D. $10 \times (3 + 2)$
- 5) Which expression is equal to $10 \times (3 \times 2)$
A. $10 \times (3 + 2)$
B. $(10 \times 3) + 2$
C. $(10 \times 3) \times 2$
D. $10 + (3 + 2)$
- 6) Which expression is equal to $5 \times (6 \times 10)$
A. $(5 \times 6) + 10$
B. $(5 \times 6) \times 10$
C. $5 + (6 + 10)$
D. $5 + (6 \times 10)$
- 7) Which expression is equal to $(5 \times 1) \times 4$
A. $5 \times (1 \times 4)$
B. $5 \times (1 + 4)$
C. $(5 \times 1) + 4$
D. $(5 + 1) \times 4$
- 8) Which expression is equal to $0 \times (4 \times 7)$
A. $0 \times (4 + 7)$
B. $(0 \times 4) \times 7$
C. $0 + (4 \times 7)$
D. $(0 + 4) \times 7$
- 9) Which expression is equal to $(9 \times 7) \times 3$
A. $9 \times (7 \times 3)$
B. $9 + (7 + 3)$
C. $(9 + 7) + 3$
D. $9 \times (7 + 3)$
- 10) Which expression is equal to $(7 \times 6) \times 8$
A. $(7 + 6) \times 8$
B. $7 \times (6 \times 8)$
C. $7 + (6 + 8)$
D. $7 + (6 \times 8)$
- 11) Which expression is equal to $(7 \times 0) \times 1$
A. $7 \times (0 \times 1)$
B. $7 + (0 \times 1)$
C. $(7 \times 0) + 1$
D. $(7 + 0) + 1$
- 12) Which expression is equal to $(8 \times 9) \times 10$
A. $8 \times (9 \times 10)$
B. $(8 + 9) + 10$
C. $(8 \times 9) + 10$
D. $(8 + 9) \times 10$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$5 \times (8 \times 7)$

A. $(5 \times 8) \times 7$

B. $5 \times (8 + 7)$

C. $(5 + 8) \times 7$

D. $5 + (8 + 7)$

- 2) Which expression is equal to

$6 \times (3 \times 8)$

A. $6 \times (3 + 8)$

B. $6 + (3 + 8)$

C. $(6 \times 3) \times 8$

D. $(6 + 3) \times 8$

- 3) Which expression is equal to

$(1 \times 4) \times 5$

A. $1 \times (4 + 5)$

B. $(1 \times 4) + 5$

C. $(1 + 4) + 5$

D. $1 \times (4 \times 5)$

- 4) Which expression is equal to

$(10 \times 3) \times 2$

A. $10 + (3 \times 2)$

B. $10 \times (3 \times 2)$

C. $(10 \times 3) + 2$

D. $10 + (3 + 2)$

- 5) Which expression is equal to

$(0 \times 1) \times 5$

A. $0 \times (1 \times 5)$

B. $(0 + 1) \times 5$

C. $0 + (1 \times 5)$

D. $0 + (1 + 5)$

- 6) Which expression is equal to

$1 \times (8 \times 7)$

A. $(1 + 8) + 7$

B. $1 \times (8 + 7)$

C. $(1 \times 8) \times 7$

D. $(1 + 8) \times 7$

- 7) Which expression is equal to

$2 \times (0 \times 9)$

A. $(2 \times 0) \times 9$

B. $(2 + 0) \times 9$

C. $2 \times (0 + 9)$

D. $(2 + 0) + 9$

- 8) Which expression is equal to

$4 \times (10 \times 1)$

A. $4 + (10 + 1)$

B. $(4 + 10) \times 1$

C. $4 \times (10 + 1)$

D. $(4 \times 10) \times 1$

- 9) Which expression is equal to

$(6 \times 7) \times 1$

A. $6 \times (7 \times 1)$

B. $6 + (7 \times 1)$

C. $(6 + 7) \times 1$

D. $(6 \times 7) + 1$

- 10) Which expression is equal to

$6 \times (1 \times 10)$

A. $(6 + 1) \times 10$

B. $(6 \times 1) \times 10$

C. $6 \times (1 + 10)$

D. $(6 + 1) + 10$

- 11) Which expression is equal to

$4 \times (2 \times 3)$

A. $(4 \times 2) \times 3$

B. $4 + (2 \times 3)$

C. $4 \times (2 + 3)$

D. $(4 + 2) + 3$

- 12) Which expression is equal to

$(8 \times 10) \times 3$

A. $(8 + 10) \times 3$

B. $(8 + 10) + 3$

C. $8 \times (10 + 3)$

D. $8 \times (10 \times 3)$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$5 \times (8 \times 7)$

A. $(5 \times 8) \times 7$

B. $5 \times (8 + 7)$

C. $(5 + 8) \times 7$

D. $5 + (8 + 7)$

- 2) Which expression is equal to

$6 \times (3 \times 8)$

A. $6 \times (3 + 8)$

B. $6 + (3 + 8)$

C. $(6 \times 3) \times 8$

D. $(6 + 3) \times 8$

- 3) Which expression is equal to

$(1 \times 4) \times 5$

A. $1 \times (4 + 5)$

B. $(1 \times 4) + 5$

C. $(1 + 4) + 5$

D. $1 \times (4 \times 5)$

- 4) Which expression is equal to

$(10 \times 3) \times 2$

A. $10 + (3 \times 2)$

B. $10 \times (3 \times 2)$

C. $(10 \times 3) + 2$

D. $10 + (3 + 2)$

- 5) Which expression is equal to

$(0 \times 1) \times 5$

A. $0 \times (1 \times 5)$

B. $(0 + 1) \times 5$

C. $0 + (1 \times 5)$

D. $0 + (1 + 5)$

- 6) Which expression is equal to

$1 \times (8 \times 7)$

A. $(1 + 8) + 7$

B. $1 \times (8 + 7)$

C. $(1 \times 8) \times 7$

D. $(1 + 8) \times 7$

- 7) Which expression is equal to

$2 \times (0 \times 9)$

A. $(2 \times 0) \times 9$

B. $(2 + 0) \times 9$

C. $2 \times (0 + 9)$

D. $(2 + 0) + 9$

- 8) Which expression is equal to

$4 \times (10 \times 1)$

A. $4 + (10 + 1)$

B. $(4 + 10) \times 1$

C. $4 \times (10 + 1)$

D. $(4 \times 10) \times 1$

- 9) Which expression is equal to

$(6 \times 7) \times 1$

A. $6 \times (7 \times 1)$

B. $6 + (7 \times 1)$

C. $(6 + 7) \times 1$

D. $(6 \times 7) + 1$

- 10) Which expression is equal to

$6 \times (1 \times 10)$

A. $(6 + 1) \times 10$

B. $(6 \times 1) \times 10$

C. $6 \times (1 + 10)$

D. $(6 + 1) + 10$

- 11) Which expression is equal to

$4 \times (2 \times 3)$

A. $(4 \times 2) \times 3$

B. $4 + (2 \times 3)$

C. $4 \times (2 + 3)$

D. $(4 + 2) + 3$

- 12) Which expression is equal to

$(8 \times 10) \times 3$

A. $(8 + 10) \times 3$

B. $(8 + 10) + 3$

C. $8 \times (10 + 3)$

D. $8 \times (10 \times 3)$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$(1 \times 9) \times 10$

A. $(1 + 9) + 10$

B. $(1 \times 9) + 10$

C. $1 + (9 \times 10)$

D. $1 \times (9 \times 10)$

- 2) Which expression is equal to

$0 \times (7 \times 4)$

A. $0 + (7 \times 4)$

B. $(0 + 7) \times 4$

C. $(0 + 7) + 4$

D. $(0 \times 7) \times 4$

- 3) Which expression is equal to

$9 \times (0 \times 7)$

A. $9 \times (0 + 7)$

B. $(9 \times 0) \times 7$

C. $(9 + 0) \times 7$

D. $(9 + 0) + 7$

- 4) Which expression is equal to

$9 \times (1 \times 10)$

A. $(9 + 1) \times 10$

B. $9 \times (1 + 10)$

C. $(9 \times 1) \times 10$

D. $(9 \times 1) + 10$

- 5) Which expression is equal to

$(1 \times 9) \times 10$

A. $(1 \times 9) + 10$

B. $1 \times (9 \times 10)$

C. $1 + (9 \times 10)$

D. $1 + (9 + 10)$

- 6) Which expression is equal to

$(4 \times 5) \times 2$

A. $4 + (5 \times 2)$

B. $(4 + 5) + 2$

C. $4 \times (5 \times 2)$

D. $4 \times (5 + 2)$

- 7) Which expression is equal to

$3 \times (5 \times 9)$

A. $(3 + 5) \times 9$

B. $3 + (5 + 9)$

C. $(3 \times 5) + 9$

D. $(3 \times 5) \times 9$

- 8) Which expression is equal to

$3 \times (6 \times 9)$

A. $3 + (6 + 9)$

B. $(3 \times 6) \times 9$

C. $(3 + 6) \times 9$

D. $(3 + 6) + 9$

- 9) Which expression is equal to

$(8 \times 3) \times 1$

A. $(8 + 3) + 1$

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

C. $8 + (3 + 1)$

D. $8 \times (3 \times 1)$

- 10) Which expression is equal to

$(6 \times 5) \times 3$

A. $(6 + 5) + 3$

B. $6 \times (5 + 3)$

C. $6 \times (5 \times 3)$

D. $(6 + 5) \times 3$

- 11) Which expression is equal to

$7 \times (4 \times 3)$

A. $7 \times (4 + 3)$

B. $7 + (4 + 3)$

C. $(7 \times 4) \times 3$

D. $7 + (4 \times 3)$

- 12) Which expression is equal to

$4 \times (1 \times 2)$

A. $4 + (1 \times 2)$

B. $4 + (1 + 2)$

C. $(4 \times 1) \times 2$

D. $(4 \times 1) + 2$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

Determine which choice is an equivalent equation.

Answers

- 1) Which expression is equal to $(1 \times 9) \times 10$
A. $(1 + 9) + 10$
B. $(1 \times 9) + 10$
C. $1 + (9 \times 10)$
D. $1 \times (9 \times 10)$
 - 2) Which expression is equal to $0 \times (7 \times 4)$
A. $0 + (7 \times 4)$
B. $(0 + 7) \times 4$
C. $(0 + 7) + 4$
D. $(0 \times 7) \times 4$
 - 3) Which expression is equal to $9 \times (0 \times 7)$
A. $9 \times (0 + 7)$
B. $(9 \times 0) \times 7$
C. $(9 + 0) \times 7$
D. $(9 + 0) + 7$
 - 4) Which expression is equal to $9 \times (1 \times 10)$
A. $(9 + 1) \times 10$
B. $9 \times (1 + 10)$
C. $(9 \times 1) \times 10$
D. $(9 \times 1) + 10$
 - 5) Which expression is equal to $(1 \times 9) \times 10$
A. $(1 \times 9) + 10$
B. $1 \times (9 \times 10)$
C. $1 + (9 \times 10)$
D. $1 + (9 + 10)$
 - 6) Which expression is equal to $(4 \times 5) \times 2$
A. $4 + (5 \times 2)$
B. $(4 + 5) + 2$
C. $4 \times (5 \times 2)$
D. $4 \times (5 + 2)$
 - 7) Which expression is equal to $3 \times (5 \times 9)$
A. $(3 + 5) \times 9$
B. $3 + (5 + 9)$
C. $(3 \times 5) + 9$
D. $(3 \times 5) \times 9$
 - 8) Which expression is equal to $3 \times (6 \times 9)$
A. $3 + (6 + 9)$
B. $(3 \times 6) \times 9$
C. $(3 + 6) \times 9$
D. $(3 + 6) + 9$
 - 9) Which expression is equal to $(8 \times 3) \times 1$
A. $(8 + 3) + 1$
B. $(8 + 3) \times 1$
C. $8 + (3 + 1)$
D. $8 \times (3 \times 1)$
 - 10) Which expression is equal to $(6 \times 5) \times 3$
A. $(6 + 5) + 3$
B. $6 \times (5 + 3)$
C. $6 \times (5 \times 3)$
D. $(6 + 5) \times 3$
 - 11) Which expression is equal to $7 \times (4 \times 3)$
A. $7 \times (4 + 3)$
B. $7 + (4 + 3)$
C. $(7 \times 4) \times 3$
D. $7 + (4 \times 3)$
 - 12) Which expression is equal to $4 \times (1 \times 2)$
A. $4 + (1 \times 2)$
B. $4 + (1 + 2)$
C. $(4 \times 1) \times 2$
D. $(4 \times 1) + 2$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$(5 \times 2) \times 4$

A. $(5 + 2) + 4$

B. $(5 + 2) \times 4$

C. $5 + (2 \times 4)$

D. $5 \times (2 \times 4)$

- 2) Which expression is equal to

$0 \times (10 \times 6)$

A. $(0 \times 10) \times 6$

B. $0 \times (10 + 6)$

C. $(0 + 10) \times 6$

D. $(0 \times 10) + 6$

- 3) Which expression is equal to

$2 \times (9 \times 10)$

A. $(2 \times 9) + 10$

B. $(2 \times 9) \times 10$

C. $(2 + 9) + 10$

D. $2 + (9 \times 10)$

- 4) Which expression is equal to

$(4 \times 0) \times 10$

A. $4 \times (0 \times 10)$

B. $4 + (0 \times 10)$

C. $4 \times (0 + 10)$

D. $(4 \times 0) + 10$

- 5) Which expression is equal to

$9 \times (4 \times 2)$

A. $9 \times (4 + 2)$

B. $(9 \times 4) + 2$

C. $(9 \times 4) \times 2$

D. $9 + (4 + 2)$

- 6) Which expression is equal to

$(4 \times 6) \times 5$

A. $4 \times (6 \times 5)$

B. $4 + (6 + 5)$

C. $4 + (6 \times 5)$

D. $(4 + 6) \times 5$

- 7) Which expression is equal to

$(4 \times 1) \times 8$

A. $4 + (1 \times 8)$

B. $(4 + 1) \times 8$

C. $4 \times (1 \times 8)$

D. $4 + (1 + 8)$

- 8) Which expression is equal to

$(6 \times 4) \times 9$

A. $6 \times (4 \times 9)$

B. $(6 \times 4) + 9$

C. $(6 + 4) \times 9$

D. $6 \times (4 + 9)$

- 9) Which expression is equal to

$(6 \times 5) \times 1$

A. $(6 \times 5) + 1$

B. $6 \times (5 + 1)$

C. $6 \times (5 \times 1)$

D. $6 + (5 \times 1)$

- 10) Which expression is equal to

$2 \times (6 \times 8)$

A. $(2 + 6) \times 8$

B. $(2 \times 6) \times 8$

C. $2 \times (6 + 8)$

D. $2 + (6 + 8)$

- 11) Which expression is equal to

$(3 \times 8) \times 9$

A. $(3 + 8) \times 9$

B. $(3 \times 8) + 9$

C. $3 \times (8 \times 9)$

D. $3 + (8 \times 9)$

- 12) Which expression is equal to

$3 \times (1 \times 2)$

A. $(3 \times 1) \times 2$

B. $(3 + 1) + 2$

C. $(3 + 1) \times 2$

D. $(3 \times 1) + 2$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $(5 \times 2) \times 4$
A. $(5 + 2) + 4$
B. $(5 + 2) \times 4$
C. $5 + (2 \times 4)$
D. $5 \times (2 \times 4)$
- 2) Which expression is equal to $0 \times (10 \times 6)$
A. $(0 \times 10) \times 6$
B. $0 \times (10 + 6)$
C. $(0 + 10) \times 6$
D. $(0 \times 10) + 6$
- 3) Which expression is equal to $2 \times (9 \times 10)$
A. $(2 \times 9) + 10$
B. $(2 \times 9) \times 10$
C. $(2 + 9) + 10$
D. $2 + (9 \times 10)$
- 4) Which expression is equal to $(4 \times 0) \times 10$
A. $4 \times (0 \times 10)$
B. $4 + (0 \times 10)$
C. $4 \times (0 + 10)$
D. $(4 \times 0) + 10$
- 5) Which expression is equal to $9 \times (4 \times 2)$
A. $9 \times (4 + 2)$
B. $(9 \times 4) + 2$
C. $(9 \times 4) \times 2$
D. $9 + (4 + 2)$
- 6) Which expression is equal to $(4 \times 6) \times 5$
A. $4 \times (6 \times 5)$
B. $4 + (6 + 5)$
C. $4 + (6 \times 5)$
D. $(4 + 6) \times 5$
- 7) Which expression is equal to $(4 \times 1) \times 8$
A. $4 + (1 \times 8)$
B. $(4 + 1) \times 8$
C. $4 \times (1 \times 8)$
D. $4 + (1 + 8)$
- 8) Which expression is equal to $(6 \times 4) \times 9$
A. $6 \times (4 \times 9)$
B. $(6 \times 4) + 9$
C. $(6 + 4) \times 9$
D. $6 \times (4 + 9)$
- 9) Which expression is equal to $(6 \times 5) \times 1$
A. $(6 \times 5) + 1$
B. $6 \times (5 + 1)$
C. $6 \times (5 \times 1)$
D. $6 + (5 \times 1)$
- 10) Which expression is equal to $2 \times (6 \times 8)$
A. $(2 + 6) \times 8$
B. $(2 \times 6) \times 8$
C. $2 \times (6 + 8)$
D. $2 + (6 + 8)$
- 11) Which expression is equal to $(3 \times 8) \times 9$
A. $(3 + 8) \times 9$
B. $(3 \times 8) + 9$
C. $3 \times (8 \times 9)$
D. $3 + (8 \times 9)$
- 12) Which expression is equal to $3 \times (1 \times 2)$
A. $(3 \times 1) \times 2$
B. $(3 + 1) + 2$
C. $(3 + 1) \times 2$
D. $(3 \times 1) + 2$

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

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to

$0 \times (10 \times 2)$

A. $0 \times (10 + 2)$

B. $0 + (10 + 2)$

C. $(0 + 10) \times 2$

D. $(0 \times 10) \times 2$

- 2) Which expression is equal to

$(2 \times 6) \times 10$

A. $2 + (6 + 10)$

B. $(2 \times 6) + 10$

C. $2 \times (6 \times 10)$

D. $(2 + 6) + 10$

- 3) Which expression is equal to

$6 \times (2 \times 5)$

A. $(6 \times 2) \times 5$

B. $(6 + 2) + 5$

C. $6 \times (2 + 5)$

D. $6 + (2 + 5)$

- 4) Which expression is equal to

$9 \times (1 \times 3)$

A. $(9 \times 1) \times 3$

B. $(9 + 1) + 3$

C. $9 + (1 + 3)$

D. $9 + (1 \times 3)$

- 5) Which expression is equal to

$7 \times (5 \times 6)$

A. $(7 + 5) \times 6$

B. $7 + (5 + 6)$

C. $7 \times (5 + 6)$

D. $(7 \times 5) \times 6$

- 6) Which expression is equal to

$9 \times (1 \times 4)$

A. $(9 \times 1) \times 4$

B. $9 + (1 \times 4)$

C. $(9 + 1) \times 4$

D. $9 + (1 + 4)$

- 7) Which expression is equal to

$(1 \times 9) \times 6$

A. $1 + (9 + 6)$

B. $1 + (9 \times 6)$

C. $1 \times (9 \times 6)$

D. $(1 + 9) \times 6$

- 8) Which expression is equal to

$(5 \times 3) \times 6$

A. $5 \times (3 + 6)$

B. $5 + (3 + 6)$

C. $5 \times (3 \times 6)$

D. $5 + (3 \times 6)$

- 9) Which expression is equal to

$8 \times (3 \times 0)$

A. $(8 + 3) \times 0$

B. $(8 \times 3) \times 0$

C. $8 + (3 + 0)$

D. $(8 \times 3) + 0$

- 10) Which expression is equal to

$5 \times (9 \times 8)$

A. $(5 \times 9) + 8$

B. $5 \times (9 + 8)$

C. $5 + (9 \times 8)$

D. $(5 \times 9) \times 8$

- 11) Which expression is equal to

$8 \times (3 \times 0)$

A. $(8 \times 3) \times 0$

B. $(8 + 3) + 0$

C. $8 + (3 + 0)$

D. $8 \times (3 + 0)$

- 12) Which expression is equal to

$(8 \times 10) \times 2$

A. $8 + (10 + 2)$

B. $8 + (10 \times 2)$

C. $(8 + 10) + 2$

D. $8 \times (10 \times 2)$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

**Determine which choice is an equivalent equation.****Answers**

- 1) Which expression is equal to $0 \times (10 \times 2)$
A. $0 \times (10 + 2)$
B. $0 + (10 + 2)$
C. $(0 + 10) \times 2$
D. $(0 \times 10) \times 2$
- 2) Which expression is equal to $(2 \times 6) \times 10$
A. $2 + (6 + 10)$
B. $(2 \times 6) + 10$
C. $2 \times (6 \times 10)$
D. $(2 + 6) + 10$
- 3) Which expression is equal to $6 \times (2 \times 5)$
A. $(6 \times 2) \times 5$
B. $(6 + 2) + 5$
C. $6 \times (2 + 5)$
D. $6 + (2 + 5)$
- 4) Which expression is equal to $9 \times (1 \times 3)$
A. $(9 \times 1) \times 3$
B. $(9 + 1) + 3$
C. $9 + (1 + 3)$
D. $9 + (1 \times 3)$
- 5) Which expression is equal to $7 \times (5 \times 6)$
A. $(7 + 5) \times 6$
B. $7 + (5 + 6)$
C. $7 \times (5 + 6)$
D. $(7 \times 5) \times 6$
- 6) Which expression is equal to $9 \times (1 \times 4)$
A. $(9 \times 1) \times 4$
B. $9 + (1 \times 4)$
C. $(9 + 1) \times 4$
D. $9 + (1 + 4)$
- 7) Which expression is equal to $(1 \times 9) \times 6$
A. $1 + (9 + 6)$
B. $1 + (9 \times 6)$
C. $1 \times (9 \times 6)$
D. $(1 + 9) \times 6$
- 8) Which expression is equal to $(5 \times 3) \times 6$
A. $5 \times (3 + 6)$
B. $5 + (3 + 6)$
C. $5 \times (3 \times 6)$
D. $5 + (3 \times 6)$
- 9) Which expression is equal to $8 \times (3 \times 0)$
A. $(8 + 3) \times 0$
B. $(8 \times 3) \times 0$
C. $8 + (3 + 0)$
D. $(8 \times 3) + 0$
- 10) Which expression is equal to $5 \times (9 \times 8)$
A. $(5 \times 9) + 8$
B. $5 \times (9 + 8)$
C. $5 + (9 \times 8)$
D. $(5 \times 9) \times 8$
- 11) Which expression is equal to $8 \times (3 \times 0)$
A. $(8 \times 3) \times 0$
B. $(8 + 3) + 0$
C. $8 + (3 + 0)$
D. $8 \times (3 + 0)$
- 12) Which expression is equal to $(8 \times 10) \times 2$
A. $8 + (10 + 2)$
B. $8 + (10 \times 2)$
C. $(8 + 10) + 2$
D. $8 \times (10 \times 2)$

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