



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. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 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**