



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**