Finding Associative Property of Multiplication Name:

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

**1)** Which expression is equal to $10 \times ( 1 \times 3 )$

A. $10 + ( 1 + 3 )$
B. $( 10 \times 1 ) + 3$
C. $10 + ( 1 \times 3 )$
D. $( 10 \times 1 ) \times 3$

**2)** Which expression is equal to $( 1 \times 9 ) \times 7$

A. $1 \times ( 9 + 7 )$
B. $( 1 + 9 ) + 7$
C. $1 \times ( 9 \times 7 )$
D. $( 1 \times 9 ) + 7$

**3)** Which expression is equal to $( 6 \times 10 ) \times 5$

A. $6 + ( 10 + 5 )$
B. $6 \times ( 10 \times 5 )$
C. $6 + ( 10 \times 5 )$
D. $( 6 \times 10 ) + 5$

**4)** Which expression is equal to $( 10 \times 1 ) \times 9$

A. $10 + ( 1 \times 9 )$
B. $10 \times ( 1 \times 9 )$
C. $10 + ( 1 + 9 )$
D. $( 10 + 1 ) \times 9$

**5)** Which expression is equal to $( 6 \times 1 ) \times 9$

A. $6 + ( 1 \times 9 )$
B. $6 \times ( 1 \times 9 )$
C. $( 6 \times 1 ) + 9$
D. $( 6 + 1 ) \times 9$

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

A. $1 \times ( 7 \times 5 )$
B. $1 \times ( 7 + 5 )$
C. $( 1 + 7 ) \times 5$
D. $( 1 + 7 ) + 5$

**7)** Which expression is equal to $( 0 \times 3 ) \times 1$

A. $0 + ( 3 \times 1 )$
B. $0 \times ( 3 \times 1 )$
C. $0 + ( 3 + 1 )$
D. $( 0 \times 3 ) + 1$

**8)** Which expression is equal to $9 \times ( 8 \times 7 )$

A. $9 + ( 8 + 7 )$
B. $9 \times ( 8 + 7 )$
C. $( 9 \times 8 ) \times 7$
D. $( 9 \times 8 ) + 7$

**9)** Which expression is equal to $( 10 \times 7 ) \times 8$

A. $( 10 \times 7 ) + 8$
B. $10 \times ( 7 \times 8 )$
C. $10 + ( 7 + 8 )$
D. $10 \times ( 7 + 8 )$

**10)** Which expression is equal to $9 \times ( 1 \times 5 )$

A. $( 9 \times 1 ) \times 5$
B. $( 9 \times 1 ) + 5$
C. $( 9 + 1 ) \times 5$
D. $9 \times ( 1 + 5 )$

**11)** Which expression is equal to $3 \times ( 9 \times 0 )$

A. $( 3 + 9 ) + 0$
B. $( 3 \times 9 ) \times 0$
C. $( 3 \times 9 ) + 0$
D. $3 + ( 9 + 0 )$

**12)** Which expression is equal to $4 \times ( 9 \times 2 )$

A. $4 + ( 9 \times 2 )$
B. $4 + ( 9 + 2 )$
C. $( 4 + 9 ) \times 2$
D. $( 4 \times 9 ) \times 2$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to $10 \times ( 1 \times 3 )$

A. $10 + ( 1 + 3 )$
B. $( 10 \times 1 ) + 3$
C. $10 + ( 1 \times 3 )$
D. $( 10 \times 1 ) \times 3$

**2)** Which expression is equal to $( 1 \times 9 ) \times 7$

A. $1 \times ( 9 + 7 )$
B. $( 1 + 9 ) + 7$
C. $1 \times ( 9 \times 7 )$
D. $( 1 \times 9 ) + 7$

**3)** Which expression is equal to $( 6 \times 10 ) \times 5$

A. $6 + ( 10 + 5 )$
B. $6 \times ( 10 \times 5 )$
C. $6 + ( 10 \times 5 )$
D. $( 6 \times 10 ) + 5$

**4)** Which expression is equal to $( 10 \times 1 ) \times 9$

A. $10 + ( 1 \times 9 )$
B. $10 \times ( 1 \times 9 )$
C. $10 + ( 1 + 9 )$
D. $( 10 + 1 ) \times 9$

**5)** Which expression is equal to $( 6 \times 1 ) \times 9$

A. $6 + ( 1 \times 9 )$
B. $6 \times ( 1 \times 9 )$
C. $( 6 \times 1 ) + 9$
D. $( 6 + 1 ) \times 9$

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

A. $1 \times ( 7 \times 5 )$
B. $1 \times ( 7 + 5 )$
C. $( 1 + 7 ) \times 5$
D. $( 1 + 7 ) + 5$

**7)** Which expression is equal to $( 0 \times 3 ) \times 1$

A. $0 + ( 3 \times 1 )$
B. $0 \times ( 3 \times 1 )$
C. $0 + ( 3 + 1 )$
D. $( 0 \times 3 ) + 1$

**8)** Which expression is equal to $9 \times ( 8 \times 7 )$

A. $9 + ( 8 + 7 )$
B. $9 \times ( 8 + 7 )$
C. $( 9 \times 8 ) \times 7$
D. $( 9 \times 8 ) + 7$

**9)** Which expression is equal to $( 10 \times 7 ) \times 8$

A. $( 10 \times 7 ) + 8$
B. $10 \times ( 7 \times 8 )$
C. $10 + ( 7 + 8 )$
D. $10 \times ( 7 + 8 )$

**10)** Which expression is equal to $9 \times ( 1 \times 5 )$

A. $( 9 \times 1 ) \times 5$
B. $( 9 \times 1 ) + 5$
C. $( 9 + 1 ) \times 5$
D. $9 \times ( 1 + 5 )$

**11)** Which expression is equal to $3 \times ( 9 \times 0 )$

A. $( 3 + 9 ) + 0$
B. $( 3 \times 9 ) \times 0$
C. $( 3 \times 9 ) + 0$
D. $3 + ( 9 + 0 )$

**12)** Which expression is equal to $4 \times ( 9 \times 2 )$

A. $4 + ( 9 \times 2 )$
B. $4 + ( 9 + 2 )$
C. $( 4 + 9 ) \times 2$
D. $( 4 \times 9 ) \times 2$

**Answers**

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



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

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

**1)** Which expression is equal to ( 10 × 5 ) × 8

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

**2)** Which expression is equal to 9 × ( 7 × 10 )

A. ( 9 × 7 ) × 10
B. ( 9 + 7 ) + 10
C. 9 × ( 7 + 10 )
D. ( 9 × 7 ) + 10

**3)** Which expression is equal to 8 × ( 2 × 5 )

A. ( 8 + 2 ) + 5
B. ( 8 × 2 ) + 5
C. 8 + ( 2 + 5 )
D. ( 8 × 2 ) × 5

**4)** Which expression is equal to 0 × ( 1 × 9 )

A. ( 0 × 1 ) + 9
B. ( 0 × 1 ) × 9
C. ( 0 + 1 ) × 9
D. 0 + ( 1 × 9 )

**5)** Which expression is equal to 9 × ( 0 × 1 )

A. ( 9 × 0 ) × 1
B. ( 9 × 0 ) + 1
C. ( 9 + 0 ) × 1
D. ( 9 + 0 ) + 1

**6)** Which expression is equal to ( 0 × 5 ) × 2

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

**7)** Which expression is equal to ( 3 × 2 ) × 0

A. 3 × ( 2 × 0 )
B. ( 3 × 2 ) + 0
C. 3 × ( 2 + 0 )
D. ( 3 + 2 ) × 0

**8)** Which expression is equal to ( 0 × 1 ) × 6

A. ( 0 × 1 ) + 6
B. 0 × ( 1 × 6 )
C. ( 0 + 1 ) × 6
D. 0 + ( 1 × 6 )

**9)** Which expression is equal to 2 × ( 7 × 10 )

A. ( 2 + 7 ) + 10
B. 2 + ( 7 + 10 )
C. ( 2 × 7 ) + 10
D. ( 2 × 7 ) × 10

**10)** Which expression is equal to 6 × ( 0 × 8 )

A. 6 × ( 0 + 8 )
B. ( 6 + 0 ) × 8
C. 6 + ( 0 + 8 )
D. ( 6 × 0 ) × 8

**11)** Which expression is equal to ( 7 × 0 ) × 6

A. 7 + ( 0 × 6 )
B. 7 × ( 0 × 6 )
C. ( 7 + 0 ) + 6
D. ( 7 + 0 ) × 6

**12)** Which expression is equal to 5 × ( 0 × 1 )

A. ( 5 + 0 ) × 1
B. 5 + ( 0 × 1 )
C. ( 5 + 0 ) + 1
D. ( 5 × 0 ) × 1

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to ( 10 × 5 ) × 8
A. 10 + ( 5 × 8 )
B. 10 × ( 5 + 8 )
C. ( 10 × 5 ) + 8
D. 10 × ( 5 × 8 )

**2)** Which expression is equal to 9 × ( 7 × 10 )
A. ( 9 × 7 ) × 10
B. ( 9 + 7 ) + 10
C. 9 × ( 7 + 10 )
D. ( 9 × 7 ) + 10

**3)** Which expression is equal to 8 × ( 2 × 5 )
A. ( 8 + 2 ) + 5
B. ( 8 × 2 ) + 5
C. 8 + ( 2 + 5 )
D. ( 8 × 2 ) × 5

**4)** Which expression is equal to 0 × ( 1 × 9 )
A. ( 0 × 1 ) + 9
B. ( 0 × 1 ) × 9
C. ( 0 + 1 ) × 9
D. 0 + ( 1 × 9 )

**5)** Which expression is equal to 9 × ( 0 × 1 )
A. ( 9 × 0 ) × 1
B. ( 9 × 0 ) + 1
C. ( 9 + 0 ) × 1
D. ( 9 + 0 ) + 1

**6)** Which expression is equal to ( 0 × 5 ) × 2
A. 0 + ( 5 × 2 )
B. ( 0 × 5 ) + 2
C. ( 0 + 5 ) + 2
D. 0 × ( 5 × 2 )

**7)** Which expression is equal to ( 3 × 2 ) × 0
A. 3 × ( 2 × 0 )
B. ( 3 × 2 ) + 0
C. 3 × ( 2 + 0 )
D. ( 3 + 2 ) × 0

**8)** Which expression is equal to ( 0 × 1 ) × 6
A. ( 0 × 1 ) + 6
B. 0 × ( 1 × 6 )
C. ( 0 + 1 ) × 6
D. 0 + ( 1 × 6 )

**9)** Which expression is equal to 2 × ( 7 × 10 )
A. ( 2 + 7 ) + 10
B. 2 + ( 7 + 10 )
C. ( 2 × 7 ) + 10
D. ( 2 × 7 ) × 10

**10)** Which expression is equal to 6 × ( 0 × 8 )
A. 6 × ( 0 + 8 )
B. ( 6 + 0 ) × 8
C. 6 + ( 0 + 8 )
D. ( 6 × 0 ) × 8

**11)** Which expression is equal to ( 7 × 0 ) × 6
A. 7 + ( 0 × 6 )
B. 7 × ( 0 × 6 )
C. ( 7 + 0 ) + 6
D. ( 7 + 0 ) × 6

**12)** Which expression is equal to 5 × ( 0 × 1 )
A. ( 5 + 0 ) × 1
B. 5 + ( 0 × 1 )
C. ( 5 + 0 ) + 1
D. ( 5 × 0 ) × 1

**Answers**

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



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

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

**1)** Which expression is equal to $1 \times ( 2 \times 9 )$

A. $1 + ( 2 \times 9 )$
B. $( 1 \times 2 ) + 9$
C. $( 1 + 2 ) + 9$
D. $( 1 \times 2 ) \times 9$

**2)** Which expression is equal to $0 \times ( 9 \times 10 )$

A. $( 0 \times 9 ) \times 10$
B. $( 0 + 9 ) + 10$
C. $0 \times ( 9 + 10 )$
D. $( 0 \times 9 ) + 10$

**3)** Which expression is equal to $10 \times ( 9 \times 6 )$

A. $( 10 + 9 ) \times 6$
B. $10 + ( 9 \times 6 )$
C. $( 10 + 9 ) + 6$
D. $( 10 \times 9 ) \times 6$

**4)** Which expression is equal to $5 \times ( 8 \times 7 )$

A. $( 5 \times 8 ) + 7$
B. $5 + ( 8 \times 7 )$
C. $( 5 \times 8 ) \times 7$
D. $5 + ( 8 + 7 )$

**5)** Which expression is equal to $( 3 \times 4 ) \times 7$

A. $3 + ( 4 + 7 )$
B. $3 \times ( 4 + 7 )$
C. $3 \times ( 4 \times 7 )$
D. $( 3 + 4 ) \times 7$

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

A. $10 + ( 3 \times 8 )$
B. $( 10 + 3 ) \times 8$
C. $( 10 \times 3 ) \times 8$
D. $10 + ( 3 + 8 )$

**7)** Which expression is equal to $( 0 \times 2 ) \times 8$

A. $0 \times ( 2 \times 8 )$
B. $0 + ( 2 \times 8 )$
C. $0 \times ( 2 + 8 )$
D. $( 0 + 2 ) + 8$

**8)** Which expression is equal to $4 \times ( 9 \times 10 )$

A. $4 + ( 9 \times 10 )$
B. $( 4 + 9 ) + 10$
C. $( 4 + 9 ) \times 10$
D. $( 4 \times 9 ) \times 10$

**9)** Which expression is equal to $0 \times ( 9 \times 2 )$

A. $( 0 \times 9 ) + 2$
B. $0 \times ( 9 + 2 )$
C. $( 0 + 9 ) + 2$
D. $( 0 \times 9 ) \times 2$

**10)** Which expression is equal to $( 10 \times 5 ) \times 9$

A. $10 \times ( 5 \times 9 )$
B. $10 + ( 5 \times 9 )$
C. $( 10 \times 5 ) + 9$
D. $10 + ( 5 + 9 )$

**11)** Which expression is equal to $( 10 \times 9 ) \times 7$

A. $10 \times ( 9 + 7 )$
B. $( 10 \times 9 ) + 7$
C. $( 10 + 9 ) \times 7$
D. $10 \times ( 9 \times 7 )$

**12)** Which expression is equal to $9 \times ( 7 \times 4 )$

A. $( 9 \times 7 ) + 4$
B. $( 9 \times 7 ) \times 4$
C. $9 + ( 7 \times 4 )$
D. $9 + ( 7 + 4 )$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to $1 \times ( 2 \times 9 )$

A. $1 + ( 2 \times 9 )$
B. $( 1 \times 2 ) + 9$
C. $( 1 + 2 ) + 9$
D. $( 1 \times 2 ) \times 9$

**2)** Which expression is equal to $0 \times ( 9 \times 10 )$

A. $( 0 \times 9 ) \times 10$
B. $( 0 + 9 ) + 10$
C. $0 \times ( 9 + 10 )$
D. $( 0 \times 9 ) + 10$

**3)** Which expression is equal to $10 \times ( 9 \times 6 )$

A. $( 10 + 9 ) \times 6$
B. $10 + ( 9 \times 6 )$
C. $( 10 + 9 ) + 6$
D. $( 10 \times 9 ) \times 6$

**4)** Which expression is equal to $5 \times ( 8 \times 7 )$

A. $( 5 \times 8 ) + 7$
B. $5 + ( 8 \times 7 )$
C. $( 5 \times 8 ) \times 7$
D. $5 + ( 8 + 7 )$

**5)** Which expression is equal to $( 3 \times 4 ) \times 7$

A. $3 + ( 4 + 7 )$
B. $3 \times ( 4 + 7 )$
C. $3 \times ( 4 \times 7 )$
D. $( 3 + 4 ) \times 7$

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

A. $10 + ( 3 \times 8 )$
B. $( 10 + 3 ) \times 8$
C. $( 10 \times 3 ) \times 8$
D. $10 + ( 3 + 8 )$

**7)** Which expression is equal to $( 0 \times 2 ) \times 8$

A. $0 \times ( 2 \times 8 )$
B. $0 + ( 2 \times 8 )$
C. $0 \times ( 2 + 8 )$
D. $( 0 + 2 ) + 8$

**8)** Which expression is equal to $4 \times ( 9 \times 10 )$

A. $4 + ( 9 \times 10 )$
B. $( 4 + 9 ) + 10$
C. $( 4 + 9 ) \times 10$
D. $( 4 \times 9 ) \times 10$

**9)** Which expression is equal to $0 \times ( 9 \times 2 )$

A. $( 0 \times 9 ) + 2$
B. $0 \times ( 9 + 2 )$
C. $( 0 + 9 ) + 2$
D. $( 0 \times 9 ) \times 2$

**10)** Which expression is equal to $( 10 \times 5 ) \times 9$

A. $10 \times ( 5 \times 9 )$
B. $10 + ( 5 \times 9 )$
C. $( 10 \times 5 ) + 9$
D. $10 + ( 5 + 9 )$

**11)** Which expression is equal to $( 10 \times 9 ) \times 7$

A. $10 \times ( 9 + 7 )$
B. $( 10 \times 9 ) + 7$
C. $( 10 + 9 ) \times 7$
D. $10 \times ( 9 \times 7 )$

**12)** Which expression is equal to $9 \times ( 7 \times 4 )$

A. $( 9 \times 7 ) + 4$
B. $( 9 \times 7 ) \times 4$
C. $9 + ( 7 \times 4 )$
D. $9 + ( 7 + 4 )$

## Answers

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



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

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

**1)** Which expression is equal to ( 0 × 5 ) × 9

A. 0 + ( 5 × 9 )
B. ( 0 + 5 ) × 9
C. 0 × ( 5 × 9 )
D. ( 0 + 5 ) + 9

**2)** Which expression is equal to 6 × ( 5 × 1 )

A. 6 + ( 5 × 1 )
B. 6 + ( 5 + 1 )
C. ( 6 + 5 ) × 1
D. ( 6 × 5 ) × 1

**3)** Which expression is equal to ( 0 × 6 ) × 9

A. 0 × ( 6 × 9 )
B. ( 0 × 6 ) + 9
C. 0 + ( 6 + 9 )
D. ( 0 + 6 ) + 9

**4)** Which expression is equal to ( 9 × 2 ) × 8

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

**5)** Which expression is equal to 6 × ( 1 × 8 )

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

**6)** Which expression is equal to 2 × ( 3 × 5 )

A. 2 + ( 3 + 5 )
B. ( 2 × 3 ) + 5
C. ( 2 × 3 ) × 5
D. 2 × ( 3 + 5 )

**7)** Which expression is equal to 2 × ( 3 × 7 )

A. 2 × ( 3 + 7 )
B. ( 2 × 3 ) × 7
C. 2 + ( 3 + 7 )
D. ( 2 × 3 ) + 7

**8)** Which expression is equal to 7 × ( 6 × 9 )

A. ( 7 × 6 ) × 9
B. 7 + ( 6 + 9 )
C. 7 × ( 6 + 9 )
D. ( 7 + 6 ) × 9

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

A. 2 × ( 8 × 10 )
B. 2 × ( 8 + 10 )
C. 2 + ( 8 × 10 )
D. 2 + ( 8 + 10 )

**10)** Which expression is equal to ( 4 × 10 ) × 8

A. ( 4 + 10 ) × 8
B. 4 × ( 10 × 8 )
C. 4 + ( 10 + 8 )
D. 4 × ( 10 + 8 )

**11)** Which expression is equal to ( 0 × 1 ) × 8

A. 0 + ( 1 + 8 )
B. ( 0 + 1 ) × 8
C. 0 × ( 1 × 8 )
D. 0 × ( 1 + 8 )

**12)** Which expression is equal to 6 × ( 1 × 7 )

A. ( 6 × 1 ) × 7
B. 6 + ( 1 × 7 )
C. 6 + ( 1 + 7 )
D. ( 6 + 1 ) × 7

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to ( 0 × 5 ) × 9
A. 0 + ( 5 × 9 )
B. ( 0 + 5 ) × 9
C. 0 × ( 5 × 9 )
D. ( 0 + 5 ) + 9

**2)** Which expression is equal to 6 × ( 5 × 1 )
A. 6 + ( 5 × 1 )
B. 6 + ( 5 + 1 )
C. ( 6 + 5 ) × 1
D. ( 6 × 5 ) × 1

**3)** Which expression is equal to ( 0 × 6 ) × 9
A. 0 × ( 6 × 9 )
B. ( 0 × 6 ) + 9
C. 0 + ( 6 + 9 )
D. ( 0 + 6 ) + 9

**4)** Which expression is equal to ( 9 × 2 ) × 8
A. 9 × ( 2 × 8 )
B. ( 9 + 2 ) + 8
C. ( 9 × 2 ) + 8
D. 9 + ( 2 × 8 )

**5)** Which expression is equal to 6 × ( 1 × 8 )
A. 6 + ( 1 + 8 )
B. 6 × ( 1 + 8 )
C. ( 6 + 1 ) + 8
D. ( 6 × 1 ) × 8

**6)** Which expression is equal to 2 × ( 3 × 5 )
A. 2 + ( 3 + 5 )
B. ( 2 × 3 ) + 5
C. ( 2 × 3 ) × 5
D. 2 × ( 3 + 5 )

**7)** Which expression is equal to 2 × ( 3 × 7 )
A. 2 × ( 3 + 7 )
B. ( 2 × 3 ) × 7
C. 2 + ( 3 + 7 )
D. ( 2 × 3 ) + 7

**8)** Which expression is equal to 7 × ( 6 × 9 )
A. ( 7 × 6 ) × 9
B. 7 + ( 6 + 9 )
C. 7 × ( 6 + 9 )
D. ( 7 + 6 ) × 9

**9)** Which expression is equal to ( 2 × 8 ) × 10
A. 2 × ( 8 × 10 )
B. 2 × ( 8 + 10 )
C. 2 + ( 8 × 10 )
D. 2 + ( 8 + 10 )

**10)** Which expression is equal to ( 4 × 10 ) × 8
A. ( 4 + 10 ) × 8
B. 4 × ( 10 × 8 )
C. 4 + ( 10 + 8 )
D. 4 × ( 10 + 8 )

**11)** Which expression is equal to ( 0 × 1 ) × 8
A. 0 + ( 1 + 8 )
B. ( 0 + 1 ) × 8
C. 0 × ( 1 × 8 )
D. 0 × ( 1 + 8 )

**12)** Which expression is equal to 6 × ( 1 × 7 )
A. ( 6 × 1 ) × 7
B. 6 + ( 1 × 7 )
C. 6 + ( 1 + 7 )
D. ( 6 + 1 ) × 7

**Answers**

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



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

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

**1)** Which expression is equal to ( 10 × 6 ) × 5

A. 10 × ( 6 + 5 )
B. 10 × ( 6 × 5 )
C. ( 10 × 6 ) + 5
D. 10 + ( 6 × 5 )

**2)** Which expression is equal to 10 × ( 2 × 0 )

A. 10 + ( 2 × 0 )
B. ( 10 × 2 ) × 0
C. ( 10 × 2 ) + 0
D. 10 + ( 2 + 0 )

**3)** Which expression is equal to 3 × ( 10 × 8 )

A. ( 3 × 10 ) × 8
B. ( 3 + 10 ) × 8
C. 3 + ( 10 + 8 )
D. 3 + ( 10 × 8 )

**4)** Which expression is equal to ( 8 × 1 ) × 0

A. ( 8 × 1 ) + 0
B. 8 × ( 1 × 0 )
C. ( 8 + 1 ) + 0
D. 8 × ( 1 + 0 )

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

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

**6)** Which expression is equal to 6 × ( 8 × 10 )

A. ( 6 × 8 ) + 10
B. ( 6 + 8 ) × 10
C. ( 6 + 8 ) + 10
D. ( 6 × 8 ) × 10

**7)** Which expression is equal to ( 0 × 2 ) × 9

A. 0 + ( 2 × 9 )
B. ( 0 + 2 ) × 9
C. 0 × ( 2 × 9 )
D. ( 0 × 2 ) + 9

**8)** Which expression is equal to 2 × ( 8 × 1 )

A. 2 + ( 8 × 1 )
B. ( 2 + 8 ) + 1
C. ( 2 × 8 ) + 1
D. ( 2 × 8 ) × 1

**9)** Which expression is equal to ( 6 × 7 ) × 8

A. 6 + ( 7 × 8 )
B. 6 × ( 7 + 8 )
C. ( 6 × 7 ) + 8
D. 6 × ( 7 × 8 )

**10)** Which expression is equal to ( 7 × 0 ) × 5

A. ( 7 + 0 ) × 5
B. ( 7 × 0 ) + 5
C. 7 × ( 0 × 5 )
D. 7 + ( 0 × 5 )

**11)** Which expression is equal to ( 7 × 1 ) × 0

A. 7 + ( 1 × 0 )
B. 7 × ( 1 + 0 )
C. ( 7 + 1 ) × 0
D. 7 × ( 1 × 0 )

**12)** Which expression is equal to 9 × ( 10 × 3 )

A. ( 9 × 10 ) + 3
B. 9 + ( 10 + 3 )
C. ( 9 × 10 ) × 3
D. ( 9 + 10 ) + 3

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to ( 10 × 6 ) × 5
A. 10 × ( 6 + 5 )
B. 10 × ( 6 × 5 )
C. ( 10 × 6 ) + 5
D. 10 + ( 6 × 5 )

**2)** Which expression is equal to 10 × ( 2 × 0 )
A. 10 + ( 2 × 0 )
B. ( 10 × 2 ) × 0
C. ( 10 × 2 ) + 0
D. 10 + ( 2 + 0 )

**3)** Which expression is equal to 3 × ( 10 × 8 )
A. ( 3 × 10 ) × 8
B. ( 3 + 10 ) × 8
C. 3 + ( 10 + 8 )
D. 3 + ( 10 × 8 )

**4)** Which expression is equal to ( 8 × 1 ) × 0
A. ( 8 × 1 ) + 0
B. 8 × ( 1 × 0 )
C. ( 8 + 1 ) + 0
D. 8 × ( 1 + 0 )

**5)** Which expression is equal to ( 8 × 5 ) × 10
A. 8 + ( 5 × 10 )
B. 8 × ( 5 × 10 )
C. ( 8 + 5 ) × 10
D. ( 8 × 5 ) + 10

**6)** Which expression is equal to 6 × ( 8 × 10 )
A. ( 6 × 8 ) + 10
B. ( 6 + 8 ) × 10
C. ( 6 + 8 ) + 10
D. ( 6 × 8 ) × 10

**7)** Which expression is equal to ( 0 × 2 ) × 9
A. 0 + ( 2 × 9 )
B. ( 0 + 2 ) × 9
C. 0 × ( 2 × 9 )
D. ( 0 × 2 ) + 9

**8)** Which expression is equal to 2 × ( 8 × 1 )
A. 2 + ( 8 × 1 )
B. ( 2 + 8 ) + 1
C. ( 2 × 8 ) + 1
D. ( 2 × 8 ) × 1

**9)** Which expression is equal to ( 6 × 7 ) × 8
A. 6 + ( 7 × 8 )
B. 6 × ( 7 + 8 )
C. ( 6 × 7 ) + 8
D. 6 × ( 7 × 8 )

**10)** Which expression is equal to ( 7 × 0 ) × 5
A. ( 7 + 0 ) × 5
B. ( 7 × 0 ) + 5
C. 7 × ( 0 × 5 )
D. 7 + ( 0 × 5 )

**11)** Which expression is equal to ( 7 × 1 ) × 0
A. 7 + ( 1 × 0 )
B. 7 × ( 1 + 0 )
C. ( 7 + 1 ) × 0
D. 7 × ( 1 × 0 )

**12)** Which expression is equal to 9 × ( 10 × 3 )
A. ( 9 × 10 ) + 3
B. 9 + ( 10 + 3 )
C. ( 9 × 10 ) × 3
D. ( 9 + 10 ) + 3

**Answers**

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



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

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

**1)** Which expression is equal to ( 5 × 1 ) × 2

A. ( 5 + 1 ) + 2
B. ( 5 + 1 ) × 2
C. 5 × ( 1 × 2 )
D. 5 + ( 1 × 2 )

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

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

**3)** Which expression is equal to ( 2 × 7 ) × 9

A. ( 2 + 7 ) × 9
B. ( 2 × 7 ) + 9
C. 2 × ( 7 + 9 )
D. 2 × ( 7 × 9 )

**4)** Which expression is equal to ( 3 × 6 ) × 0

A. ( 3 × 6 ) + 0
B. 3 + ( 6 × 0 )
C. 3 × ( 6 × 0 )
D. 3 × ( 6 + 0 )

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

A. ( 0 × 5 ) + 9
B. 0 × ( 5 × 9 )
C. ( 0 + 5 ) × 9
D. ( 0 + 5 ) + 9

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

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

**7)** Which expression is equal to 6 × ( 1 × 0 )

A. 6 + ( 1 × 0 )
B. ( 6 × 1 ) × 0
C. ( 6 × 1 ) + 0
D. ( 6 + 1 ) × 0

**8)** Which expression is equal to 1 × ( 7 × 0 )

A. ( 1 + 7 ) + 0
B. ( 1 + 7 ) × 0
C. ( 1 × 7 ) × 0
D. 1 × ( 7 + 0 )

**9)** Which expression is equal to 4 × ( 0 × 1 )

A. ( 4 × 0 ) × 1
B. ( 4 + 0 ) + 1
C. 4 + ( 0 + 1 )
D. ( 4 × 0 ) + 1

**10)** Which expression is equal to ( 7 × 0 ) × 10

A. 7 + ( 0 × 10 )
B. 7 × ( 0 × 10 )
C. 7 + ( 0 + 10 )
D. ( 7 + 0 ) × 10

**11)** Which expression is equal to ( 0 × 5 ) × 1

A. 0 × ( 5 × 1 )
B. ( 0 × 5 ) + 1
C. 0 × ( 5 + 1 )
D. ( 0 + 5 ) + 1

**12)** Which expression is equal to 5 × ( 3 × 6 )

A. ( 5 + 3 ) + 6
B. 5 + ( 3 × 6 )
C. ( 5 × 3 ) × 6
D. ( 5 × 3 ) + 6

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to ( 5 × 1 ) × 2
A. ( 5 + 1 ) + 2
B. ( 5 + 1 ) × 2
C. 5 × ( 1 × 2 )
D. 5 + ( 1 × 2 )

**2)** Which expression is equal to 0 × ( 2 × 5 )
A. 0 + ( 2 × 5 )
B. ( 0 + 2 ) × 5
C. ( 0 + 2 ) + 5
D. ( 0 × 2 ) × 5

**3)** Which expression is equal to ( 2 × 7 ) × 9
A. ( 2 + 7 ) × 9
B. ( 2 × 7 ) + 9
C. 2 × ( 7 + 9 )
D. 2 × ( 7 × 9 )

**4)** Which expression is equal to ( 3 × 6 ) × 0
A. ( 3 × 6 ) + 0
B. 3 + ( 6 × 0 )
C. 3 × ( 6 × 0 )
D. 3 × ( 6 + 0 )

**5)** Which expression is equal to ( 0 × 5 ) × 9
A. ( 0 × 5 ) + 9
B. 0 × ( 5 × 9 )
C. ( 0 + 5 ) × 9
D. ( 0 + 5 ) + 9

**6)** Which expression is equal to ( 2 × 8 ) × 6
A. ( 2 × 8 ) + 6
B. 2 × ( 8 + 6 )
C. 2 + ( 8 + 6 )
D. 2 × ( 8 × 6 )

**7)** Which expression is equal to 6 × ( 1 × 0 )
A. 6 + ( 1 × 0 )
B. ( 6 × 1 ) × 0
C. ( 6 × 1 ) + 0
D. ( 6 + 1 ) × 0

**8)** Which expression is equal to 1 × ( 7 × 0 )
A. ( 1 + 7 ) + 0
B. ( 1 + 7 ) × 0
C. ( 1 × 7 ) × 0
D. 1 × ( 7 + 0 )

**9)** Which expression is equal to 4 × ( 0 × 1 )
A. ( 4 × 0 ) × 1
B. ( 4 + 0 ) + 1
C. 4 + ( 0 + 1 )
D. ( 4 × 0 ) + 1

**10)** Which expression is equal to ( 7 × 0 ) × 10
A. 7 + ( 0 × 10 )
B. 7 × ( 0 × 10 )
C. 7 + ( 0 + 10 )
D. ( 7 + 0 ) × 10

**11)** Which expression is equal to ( 0 × 5 ) × 1
A. 0 × ( 5 × 1 )
B. ( 0 × 5 ) + 1
C. 0 × ( 5 + 1 )
D. ( 0 + 5 ) + 1

**12)** Which expression is equal to 5 × ( 3 × 6 )
A. ( 5 + 3 ) + 6
B. 5 + ( 3 × 6 )
C. ( 5 × 3 ) × 6
D. ( 5 × 3 ) + 6

**Answers**

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



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

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

**1)** Which expression is equal to ( 5 × 2 ) × 0

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

**2)** Which expression is equal to ( 7 × 9 ) × 8

A. 7 + ( 9 + 8 )
B. 7 × ( 9 × 8 )
C. ( 7 + 9 ) × 8
D. 7 + ( 9 × 8 )

**3)** Which expression is equal to 10 × ( 3 × 0 )

A. ( 10 × 3 ) + 0
B. ( 10 + 3 ) × 0
C. ( 10 × 3 ) × 0
D. 10 + ( 3 × 0 )

**4)** Which expression is equal to ( 2 × 1 ) × 5

A. 2 + ( 1 × 5 )
B. 2 × ( 1 × 5 )
C. ( 2 × 1 ) + 5
D. ( 2 + 1 ) × 5

**5)** Which expression is equal to ( 8 × 4 ) × 10

A. 8 + ( 4 + 10 )
B. ( 8 × 4 ) + 10
C. 8 × ( 4 + 10 )
D. 8 × ( 4 × 10 )

**6)** Which expression is equal to 6 × ( 4 × 5 )

A. 6 + ( 4 + 5 )
B. ( 6 + 4 ) + 5
C. ( 6 × 4 ) × 5
D. 6 + ( 4 × 5 )

**7)** Which expression is equal to 2 × ( 3 × 4 )

A. ( 2 × 3 ) × 4
B. 2 + ( 3 + 4 )
C. ( 2 + 3 ) × 4
D. ( 2 + 3 ) + 4

**8)** Which expression is equal to ( 0 × 7 ) × 3

A. 0 × ( 7 × 3 )
B. ( 0 + 7 ) + 3
C. 0 + ( 7 + 3 )
D. 0 + ( 7 × 3 )

**9)** Which expression is equal to 5 × ( 0 × 3 )

A. 5 + ( 0 + 3 )
B. ( 5 × 0 ) × 3
C. 5 + ( 0 × 3 )
D. 5 × ( 0 + 3 )

**10)** Which expression is equal to ( 3 × 5 ) × 4

A. ( 3 + 5 ) + 4
B. 3 × ( 5 + 4 )
C. 3 × ( 5 × 4 )
D. ( 3 + 5 ) × 4

**11)** Which expression is equal to ( 9 × 4 ) × 0

A. ( 9 + 4 ) + 0
B. 9 × ( 4 × 0 )
C. 9 + ( 4 × 0 )
D. 9 × ( 4 + 0 )

**12)** Which expression is equal to 6 × ( 2 × 3 )

A. ( 6 × 2 ) × 3
B. ( 6 + 2 ) + 3
C. 6 + ( 2 × 3 )
D. ( 6 × 2 ) + 3

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to ( 5 × 2 ) × 0
A. 5 × ( 2 × 0 )
B. ( 5 + 2 ) + 0
C. ( 5 × 2 ) + 0
D. ( 5 + 2 ) × 0

**2)** Which expression is equal to ( 7 × 9 ) × 8
A. 7 + ( 9 + 8 )
B. 7 × ( 9 × 8 )
C. ( 7 + 9 ) × 8
D. 7 + ( 9 × 8 )

**3)** Which expression is equal to 10 × ( 3 × 0 )
A. ( 10 × 3 ) + 0
B. ( 10 + 3 ) × 0
C. ( 10 × 3 ) × 0
D. 10 + ( 3 × 0 )

**4)** Which expression is equal to ( 2 × 1 ) × 5
A. 2 + ( 1 × 5 )
B. 2 × ( 1 × 5 )
C. ( 2 × 1 ) + 5
D. ( 2 + 1 ) × 5

**5)** Which expression is equal to ( 8 × 4 ) × 10
A. 8 + ( 4 + 10 )
B. ( 8 × 4 ) + 10
C. 8 × ( 4 + 10 )
D. 8 × ( 4 × 10 )

**6)** Which expression is equal to 6 × ( 4 × 5 )
A. 6 + ( 4 + 5 )
B. ( 6 + 4 ) + 5
C. ( 6 × 4 ) × 5
D. 6 + ( 4 × 5 )

**7)** Which expression is equal to 2 × ( 3 × 4 )
A. ( 2 × 3 ) × 4
B. 2 + ( 3 + 4 )
C. ( 2 + 3 ) × 4
D. ( 2 + 3 ) + 4

**8)** Which expression is equal to ( 0 × 7 ) × 3
A. 0 × ( 7 × 3 )
B. ( 0 + 7 ) + 3
C. 0 + ( 7 + 3 )
D. 0 + ( 7 × 3 )

**9)** Which expression is equal to 5 × ( 0 × 3 )
A. 5 + ( 0 + 3 )
B. ( 5 × 0 ) × 3
C. 5 + ( 0 × 3 )
D. 5 × ( 0 + 3 )

**10)** Which expression is equal to ( 3 × 5 ) × 4
A. ( 3 + 5 ) + 4
B. 3 × ( 5 + 4 )
C. 3 × ( 5 × 4 )
D. ( 3 + 5 ) × 4

**11)** Which expression is equal to ( 9 × 4 ) × 0
A. ( 9 + 4 ) + 0
B. 9 × ( 4 × 0 )
C. 9 + ( 4 × 0 )
D. 9 × ( 4 + 0 )

**12)** Which expression is equal to 6 × ( 2 × 3 )
A. ( 6 × 2 ) × 3
B. ( 6 + 2 ) + 3
C. 6 + ( 2 × 3 )
D. ( 6 × 2 ) + 3

**Answers**

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



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

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

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

A. $( 4 \times 8 ) + 2$
B. $( 4 + 8 ) \times 2$
C. $( 4 \times 8 ) \times 2$
D. $( 4 + 8 ) + 2$

**2)** Which expression is equal to $6 \times ( 5 \times 7 )$

A. $( 6 \times 5 ) + 7$
B. $6 \times ( 5 + 7 )$
C. $( 6 + 5 ) + 7$
D. $( 6 \times 5 ) \times 7$

**3)** Which expression is equal to $6 \times ( 7 \times 8 )$

A. $( 6 \times 7 ) \times 8$
B. $( 6 + 7 ) \times 8$
C. $( 6 \times 7 ) + 8$
D. $6 \times ( 7 + 8 )$

**4)** Which expression is equal to $( 8 \times 2 ) \times 10$

A. $( 8 + 2 ) \times 10$
B. $( 8 \times 2 ) + 10$
C. $8 \times ( 2 \times 10 )$
D. $8 + ( 2 \times 10 )$

**5)** Which expression is equal to $3 \times ( 9 \times 0 )$

A. $3 + ( 9 \times 0 )$
B. $( 3 \times 9 ) \times 0$
C. $3 + ( 9 + 0 )$
D. $( 3 \times 9 ) + 0$

**6)** Which expression is equal to $7 \times ( 8 \times 5 )$

A. $( 7 + 8 ) + 5$
B. $7 + ( 8 + 5 )$
C. $7 + ( 8 \times 5 )$
D. $( 7 \times 8 ) \times 5$

**7)** Which expression is equal to $( 2 \times 5 ) \times 9$

A. $2 \times ( 5 \times 9 )$
B. $2 + ( 5 \times 9 )$
C. $2 + ( 5 + 9 )$
D. $( 2 + 5 ) + 9$

**8)** Which expression is equal to $4 \times ( 3 \times 1 )$

A. $4 + ( 3 + 1 )$
B. $4 + ( 3 \times 1 )$
C. $( 4 \times 3 ) \times 1$
D. $( 4 + 3 ) \times 1$

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

A. $1 + ( 7 + 5 )$
B. $1 + ( 7 \times 5 )$
C. $( 1 + 7 ) \times 5$
D. $1 \times ( 7 \times 5 )$

**10)** Which expression is equal to $( 5 \times 2 ) \times 10$

A. $5 + ( 2 + 10 )$
B. $5 \times ( 2 \times 10 )$
C. $( 5 + 2 ) \times 10$
D. $5 \times ( 2 + 10 )$

**11)** Which expression is equal to $0 \times ( 3 \times 6 )$

A. $( 0 \times 3 ) + 6$
B. $0 + ( 3 \times 6 )$
C. $( 0 \times 3 ) \times 6$
D. $0 + ( 3 + 6 )$

**12)** Which expression is equal to $2 \times ( 9 \times 4 )$

A. $( 2 \times 9 ) \times 4$
B. $2 + ( 9 \times 4 )$
C. $( 2 + 9 ) + 4$
D. $2 + ( 9 + 4 )$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

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

A. $( 4 \times 8 ) + 2$
B. $( 4 + 8 ) \times 2$
C. $( 4 \times 8 ) \times 2$
D. $( 4 + 8 ) + 2$

**2)** Which expression is equal to $6 \times ( 5 \times 7 )$

A. $( 6 \times 5 ) + 7$
B. $6 \times ( 5 + 7 )$
C. $( 6 + 5 ) + 7$
D. $( 6 \times 5 ) \times 7$

**3)** Which expression is equal to $6 \times ( 7 \times 8 )$

A. $( 6 \times 7 ) \times 8$
B. $( 6 + 7 ) \times 8$
C. $( 6 \times 7 ) + 8$
D. $6 \times ( 7 + 8 )$

**4)** Which expression is equal to $( 8 \times 2 ) \times 10$

A. $( 8 + 2 ) \times 10$
B. $( 8 \times 2 ) + 10$
C. $8 \times ( 2 \times 10 )$
D. $8 + ( 2 \times 10 )$

**5)** Which expression is equal to $3 \times ( 9 \times 0 )$

A. $3 + ( 9 \times 0 )$
B. $( 3 \times 9 ) \times 0$
C. $3 + ( 9 + 0 )$
D. $( 3 \times 9 ) + 0$

**6)** Which expression is equal to $7 \times ( 8 \times 5 )$

A. $( 7 + 8 ) + 5$
B. $7 + ( 8 + 5 )$
C. $7 + ( 8 \times 5 )$
D. $( 7 \times 8 ) \times 5$

**7)** Which expression is equal to $( 2 \times 5 ) \times 9$

A. $2 \times ( 5 \times 9 )$
B. $2 + ( 5 \times 9 )$
C. $2 + ( 5 + 9 )$
D. $( 2 + 5 ) + 9$

**8)** Which expression is equal to $4 \times ( 3 \times 1 )$

A. $4 + ( 3 + 1 )$
B. $4 + ( 3 \times 1 )$
C. $( 4 \times 3 ) \times 1$
D. $( 4 + 3 ) \times 1$

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

A. $1 + ( 7 + 5 )$
B. $1 + ( 7 \times 5 )$
C. $( 1 + 7 ) \times 5$
D. $1 \times ( 7 \times 5 )$

**10)** Which expression is equal to $( 5 \times 2 ) \times 10$

A. $5 + ( 2 + 10 )$
B. $5 \times ( 2 \times 10 )$
C. $( 5 + 2 ) \times 10$
D. $5 \times ( 2 + 10 )$

**11)** Which expression is equal to $0 \times ( 3 \times 6 )$

A. $( 0 \times 3 ) + 6$
B. $0 + ( 3 \times 6 )$
C. $( 0 \times 3 ) \times 6$
D. $0 + ( 3 + 6 )$

**12)** Which expression is equal to $2 \times ( 9 \times 4 )$

A. $( 2 \times 9 ) \times 4$
B. $2 + ( 9 \times 4 )$
C. $( 2 + 9 ) + 4$
D. $2 + ( 9 + 4 )$

**Answers**

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



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

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

**1)** Which expression is equal to $5 \times ( 8 \times 1 )$

A. $( 5 \times 8 ) \times 1$
B. $5 + ( 8 + 1 )$
C. $( 5 \times 8 ) + 1$
D. $5 + ( 8 \times 1 )$

**2)** Which expression is equal to $( 7 \times 8 ) \times 10$

A. $( 7 + 8 ) \times 10$
B. $7 \times ( 8 \times 10 )$
C. $( 7 \times 8 ) + 10$
D. $7 + ( 8 + 10 )$

**3)** Which expression is equal to $( 5 \times 4 ) \times 8$

A. $5 + ( 4 \times 8 )$
B. $5 + ( 4 + 8 )$
C. $5 \times ( 4 \times 8 )$
D. $( 5 \times 4 ) + 8$

**4)** Which expression is equal to $3 \times ( 6 \times 10 )$

A. $( 3 \times 6 ) \times 10$
B. $3 \times ( 6 + 10 )$
C. $( 3 + 6 ) \times 10$
D. $( 3 \times 6 ) + 10$

**5)** Which expression is equal to $( 6 \times 5 ) \times 3$

A. $( 6 \times 5 ) + 3$
B. $6 + ( 5 \times 3 )$
C. $( 6 + 5 ) + 3$
D. $6 \times ( 5 \times 3 )$

**6)** Which expression is equal to $( 1 \times 8 ) \times 0$

A. $1 + ( 8 \times 0 )$
B. $1 \times ( 8 \times 0 )$
C. $1 + ( 8 + 0 )$
D. $( 1 + 8 ) \times 0$

**7)** Which expression is equal to $( 2 \times 9 ) \times 3$

A. $( 2 \times 9 ) + 3$
B. $2 \times ( 9 + 3 )$
C. $2 + ( 9 \times 3 )$
D. $2 \times ( 9 \times 3 )$

**8)** Which expression is equal to $( 1 \times 5 ) \times 3$

A. $1 \times ( 5 \times 3 )$
B. $1 \times ( 5 + 3 )$
C. $( 1 \times 5 ) + 3$
D. $1 + ( 5 \times 3 )$

**9)** Which expression is equal to $5 \times ( 9 \times 4 )$

A. $( 5 \times 9 ) \times 4$
B. $( 5 \times 9 ) + 4$
C. $( 5 + 9 ) + 4$
D. $5 \times ( 9 + 4 )$

**10)** Which expression is equal to $( 9 \times 8 ) \times 10$

A. $9 \times ( 8 + 10 )$
B. $9 \times ( 8 \times 10 )$
C. $9 + ( 8 \times 10 )$
D. $( 9 + 8 ) + 10$

**11)** Which expression is equal to $3 \times ( 1 \times 10 )$

A. $( 3 \times 1 ) \times 10$
B. $3 + ( 1 + 10 )$
C. $3 + ( 1 \times 10 )$
D. $( 3 \times 1 ) + 10$

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

A. $( 10 + 8 ) + 3$
B. $( 10 \times 8 ) + 3$
C. $10 \times ( 8 + 3 )$
D. $( 10 \times 8 ) \times 3$

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to $5 \times ( 8 \times 1 )$

A. $( 5 \times 8 ) \times 1$
B. $5 + ( 8 + 1 )$
C. $( 5 \times 8 ) + 1$
D. $5 + ( 8 \times 1 )$

**2)** Which expression is equal to $( 7 \times 8 ) \times 10$

A. $( 7 + 8 ) \times 10$
B. $7 \times ( 8 \times 10 )$
C. $( 7 \times 8 ) + 10$
D. $7 + ( 8 + 10 )$

**3)** Which expression is equal to $( 5 \times 4 ) \times 8$

A. $5 + ( 4 \times 8 )$
B. $5 + ( 4 + 8 )$
C. $5 \times ( 4 \times 8 )$
D. $( 5 \times 4 ) + 8$

**4)** Which expression is equal to $3 \times ( 6 \times 10 )$

A. $( 3 \times 6 ) \times 10$
B. $3 \times ( 6 + 10 )$
C. $( 3 + 6 ) \times 10$
D. $( 3 \times 6 ) + 10$

**5)** Which expression is equal to $( 6 \times 5 ) \times 3$

A. $( 6 \times 5 ) + 3$
B. $6 + ( 5 \times 3 )$
C. $( 6 + 5 ) + 3$
D. $6 \times ( 5 \times 3 )$

**6)** Which expression is equal to $( 1 \times 8 ) \times 0$

A. $1 + ( 8 \times 0 )$
B. $1 \times ( 8 \times 0 )$
C. $1 + ( 8 + 0 )$
D. $( 1 + 8 ) \times 0$

**7)** Which expression is equal to $( 2 \times 9 ) \times 3$

A. $( 2 \times 9 ) + 3$
B. $2 \times ( 9 + 3 )$
C. $2 + ( 9 \times 3 )$
D. $2 \times ( 9 \times 3 )$

**8)** Which expression is equal to $( 1 \times 5 ) \times 3$

A. $1 \times ( 5 \times 3 )$
B. $1 \times ( 5 + 3 )$
C. $( 1 \times 5 ) + 3$
D. $1 + ( 5 \times 3 )$

**9)** Which expression is equal to $5 \times ( 9 \times 4 )$

A. $( 5 \times 9 ) \times 4$
B. $( 5 \times 9 ) + 4$
C. $( 5 + 9 ) + 4$
D. $5 \times ( 9 + 4 )$

**10)** Which expression is equal to $( 9 \times 8 ) \times 10$

A. $9 \times ( 8 + 10 )$
B. $9 \times ( 8 \times 10 )$
C. $9 + ( 8 \times 10 )$
D. $( 9 + 8 ) + 10$

**11)** Which expression is equal to $3 \times ( 1 \times 10 )$

A. $( 3 \times 1 ) \times 10$
B. $3 + ( 1 + 10 )$
C. $3 + ( 1 \times 10 )$
D. $( 3 \times 1 ) + 10$

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

A. $( 10 + 8 ) + 3$
B. $( 10 \times 8 ) + 3$
C. $10 \times ( 8 + 3 )$
D. $( 10 \times 8 ) \times 3$

**Answers**

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



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

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

**1)** Which expression is equal to ( 6 × 8 ) × 10

A. 6 × ( 8 × 10 )
B. ( 6 + 8 ) + 10
C. 6 + ( 8 + 10 )
D. ( 6 × 8 ) + 10

**2)** Which expression is equal to 8 × ( 3 × 4 )

A. 8 + ( 3 + 4 )
B. ( 8 + 3 ) + 4
C. ( 8 × 3 ) × 4
D. ( 8 + 3 ) × 4

**3)** Which expression is equal to ( 3 × 2 ) × 5

A. 3 × ( 2 + 5 )
B. 3 × ( 2 × 5 )
C. 3 + ( 2 × 5 )
D. 3 + ( 2 + 5 )

**4)** Which expression is equal to 6 × ( 10 × 8 )

A. 6 + ( 10 × 8 )
B. ( 6 × 10 ) + 8
C. ( 6 × 10 ) × 8
D. ( 6 + 10 ) × 8

**5)** Which expression is equal to ( 4 × 6 ) × 2

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

**6)** Which expression is equal to ( 10 × 8 ) × 7

A. ( 10 + 8 ) + 7
B. 10 × ( 8 × 7 )
C. 10 + ( 8 + 7 )
D. ( 10 × 8 ) + 7

**7)** Which expression is equal to ( 10 × 0 ) × 8

A. 10 × ( 0 + 8 )
B. 10 + ( 0 + 8 )
C. 10 × ( 0 × 8 )
D. ( 10 × 0 ) + 8

**8)** Which expression is equal to ( 10 × 8 ) × 1

A. 10 × ( 8 + 1 )
B. 10 × ( 8 × 1 )
C. ( 10 + 8 ) × 1
D. 10 + ( 8 + 1 )

**9)** Which expression is equal to 7 × ( 2 × 4 )

A. 7 + ( 2 × 4 )
B. ( 7 × 2 ) × 4
C. ( 7 + 2 ) × 4
D. ( 7 + 2 ) + 4

**10)** Which expression is equal to 10 × ( 0 × 9 )

A. 10 × ( 0 + 9 )
B. ( 10 × 0 ) + 9
C. ( 10 + 0 ) + 9
D. ( 10 × 0 ) × 9

**11)** Which expression is equal to ( 9 × 1 ) × 4

A. 9 + ( 1 × 4 )
B. ( 9 × 1 ) + 4
C. ( 9 + 1 ) × 4
D. 9 × ( 1 × 4 )

**12)** Which expression is equal to ( 2 × 3 ) × 0

A. 2 + ( 3 × 0 )
B. 2 × ( 3 + 0 )
C. ( 2 × 3 ) + 0
D. 2 × ( 3 × 0 )

**Answers**

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____



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

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

**1)** Which expression is equal to ( 6 × 8 ) × 10
A. 6 × ( 8 × 10 )
B. ( 6 + 8 ) + 10
C. 6 + ( 8 + 10 )
D. ( 6 × 8 ) + 10

**2)** Which expression is equal to 8 × ( 3 × 4 )
A. 8 + ( 3 + 4 )
B. ( 8 + 3 ) + 4
C. ( 8 × 3 ) × 4
D. ( 8 + 3 ) × 4

**3)** Which expression is equal to ( 3 × 2 ) × 5
A. 3 × ( 2 + 5 )
B. 3 × ( 2 × 5 )
C. 3 + ( 2 × 5 )
D. 3 + ( 2 + 5 )

**4)** Which expression is equal to 6 × ( 10 × 8 )
A. 6 + ( 10 × 8 )
B. ( 6 × 10 ) + 8
C. ( 6 × 10 ) × 8
D. ( 6 + 10 ) × 8

**5)** Which expression is equal to ( 4 × 6 ) × 2
A. ( 4 + 6 ) × 2
B. 4 + ( 6 × 2 )
C. 4 × ( 6 × 2 )
D. ( 4 × 6 ) + 2

**6)** Which expression is equal to ( 10 × 8 ) × 7
A. ( 10 + 8 ) + 7
B. 10 × ( 8 × 7 )
C. 10 + ( 8 + 7 )
D. ( 10 × 8 ) + 7

**7)** Which expression is equal to ( 10 × 0 ) × 8
A. 10 × ( 0 + 8 )
B. 10 + ( 0 + 8 )
C. 10 × ( 0 × 8 )
D. ( 10 × 0 ) + 8

**8)** Which expression is equal to ( 10 × 8 ) × 1
A. 10 × ( 8 + 1 )
B. 10 × ( 8 × 1 )
C. ( 10 + 8 ) × 1
D. 10 + ( 8 + 1 )

**9)** Which expression is equal to 7 × ( 2 × 4 )
A. 7 + ( 2 × 4 )
B. ( 7 × 2 ) × 4
C. ( 7 + 2 ) × 4
D. ( 7 + 2 ) + 4

**10)** Which expression is equal to 10 × ( 0 × 9 )
A. 10 × ( 0 + 9 )
B. ( 10 × 0 ) + 9
C. ( 10 + 0 ) + 9
D. ( 10 × 0 ) × 9

**11)** Which expression is equal to ( 9 × 1 ) × 4
A. 9 + ( 1 × 4 )
B. ( 9 × 1 ) + 4
C. ( 9 + 1 ) × 4
D. 9 × ( 1 × 4 )

**12)** Which expression is equal to ( 2 × 3 ) × 0
A. 2 + ( 3 × 0 )
B. 2 × ( 3 + 0 )
C. ( 2 × 3 ) + 0
D. 2 × ( 3 × 0 )

**Answers**

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



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