



**Determine which choice is not an equivalent equation.**

**Answers**

1) Which expression is not equal to  $(4 \times 5) \times 8$

- A.  $15 \times 8$
- B.  $4 \times 40$
- C.  $4 \times (5 \times 8)$
- D.  $20 \times 8$

2) Which expression is not equal to  $(9 \times 8) \times 5$

- A.  $9 \times 48$
- B.  $72 \times 5$
- C.  $9 \times 40$
- D.  $9 \times (8 \times 5)$

3) Which expression is not equal to  $(5 \times 6) \times 9$

- A.  $30 \times 9$
- B.  $24 \times 9$
- C.  $5 \times 54$
- D.  $5 \times (6 \times 9)$

4) Which expression is not equal to  $(3 \times 10) \times 7$

- A.  $3 \times 70$
- B.  $3 \times (10 \times 7)$
- C.  $3 \times 80$
- D.  $30 \times 7$

5) Which expression is not equal to  $3 \times (6 \times 4)$

- A.  $3 \times 24$
- B.  $12 \times 4$
- C.  $18 \times 4$
- D.  $(3 \times 6) \times 4$

6) Which expression is not equal to  $9 \times (3 \times 2)$

- A.  $(9 \times 3) \times 2$
- B.  $9 \times 3$
- C.  $27 \times 2$
- D.  $9 \times 6$

7) Which expression is not equal to  $10 \times (7 \times 9)$

- A.  $(10 \times 7) \times 9$
- B.  $70 \times 9$
- C.  $10 \times 63$
- D.  $77 \times 9$

8) Which expression is not equal to  $(6 \times 2) \times 9$

- A.  $12 \times 9$
- B.  $6 \times 18$
- C.  $6 + (2 \times 9)$
- D.  $6 \times (2 \times 9)$

9) Which expression is not equal to  $(8 \times 3) \times 2$

- A.  $8 \times 6$
- B.  $27 \times 2$
- C.  $8 \times (3 \times 2)$
- D.  $24 \times 2$

10) Which expression is not equal to  $5 \times (4 \times 9)$

- A.  $(5 + 4) \times 9$
- B.  $(5 \times 4) \times 9$
- C.  $5 \times 36$
- D.  $20 \times 9$

11) Which expression is not equal to  $(3 \times 9) \times 7$

- A.  $3 \times (9 \times 7)$
- B.  $27 \times 7$
- C.  $36 \times 7$
- D.  $3 \times 63$

12) Which expression is not equal to  $4 \times (5 \times 6)$

- A.  $20 \times 6$
- B.  $(4 \times 5) \times 6$
- C.  $15 \times 6$
- D.  $4 \times 30$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(4 \times 5) \times 8$

- A.  $15 \times 8$
- B.  $4 \times 40$
- C.  $4 \times (5 \times 8)$
- D.  $20 \times 8$

2) Which expression is not equal to  $(9 \times 8) \times 5$

- A.  $9 \times 48$
- B.  $72 \times 5$
- C.  $9 \times 40$
- D.  $9 \times (8 \times 5)$

3) Which expression is not equal to  $(5 \times 6) \times 9$

- A.  $30 \times 9$
- B.  $24 \times 9$
- C.  $5 \times 54$
- D.  $5 \times (6 \times 9)$

4) Which expression is not equal to  $(3 \times 10) \times 7$

- A.  $3 \times 70$
- B.  $3 \times (10 \times 7)$
- C.  $3 \times 80$
- D.  $30 \times 7$

5) Which expression is not equal to  $3 \times (6 \times 4)$

- A.  $3 \times 24$
- B.  $12 \times 4$
- C.  $18 \times 4$
- D.  $(3 \times 6) \times 4$

6) Which expression is not equal to  $9 \times (3 \times 2)$

- A.  $(9 \times 3) \times 2$
- B.  $9 \times 3$
- C.  $27 \times 2$
- D.  $9 \times 6$

7) Which expression is not equal to  $10 \times (7 \times 9)$

- A.  $(10 \times 7) \times 9$
- B.  $70 \times 9$
- C.  $10 \times 63$
- D.  $77 \times 9$

8) Which expression is not equal to  $(6 \times 2) \times 9$

- A.  $12 \times 9$
- B.  $6 \times 18$
- C.  $6 + (2 \times 9)$
- D.  $6 \times (2 \times 9)$

9) Which expression is not equal to  $(8 \times 3) \times 2$

- A.  $8 \times 6$
- B.  $27 \times 2$
- C.  $8 \times (3 \times 2)$
- D.  $24 \times 2$

10) Which expression is not equal to  $5 \times (4 \times 9)$

- A.  $(5 + 4) \times 9$
- B.  $(5 \times 4) \times 9$
- C.  $5 \times 36$
- D.  $20 \times 9$

11) Which expression is not equal to  $(3 \times 9) \times 7$

- A.  $3 \times (9 \times 7)$
- B.  $27 \times 7$
- C.  $36 \times 7$
- D.  $3 \times 63$

12) Which expression is not equal to  $4 \times (5 \times 6)$

- A.  $20 \times 6$
- B.  $(4 \times 5) \times 6$
- C.  $15 \times 6$
- D.  $4 \times 30$

1.   **A**  

2.   **A**  

3.   **B**  

4.   **C**  

5.   **B**  

6.   **B**  

7.   **D**  

8.   **C**  

9.   **B**  

10.   **A**  

11.   **C**  

12.   **C**



**Determine which choice is not an equivalent equation.**

**Answers**

1) Which expression is not equal to  $(6 \times 4) \times 10$

- A.  $6 \times 36$
- B.  $24 \times 10$
- C.  $6 \times (4 \times 10)$
- D.  $6 \times 40$

2) Which expression is not equal to  $(8 \times 2) \times 10$

- A.  $16 \times 10$
- B.  $8 \times 20$
- C.  $8 \times (2 \times 10)$
- D.  $8 + (2 \times 10)$

3) Which expression is not equal to  $3 \times (9 \times 10)$

- A.  $(3 \times 9) \times 10$
- B.  $27 \times 10$
- C.  $18 \times 10$
- D.  $3 \times 90$

4) Which expression is not equal to  $4 \times (2 \times 7)$

- A.  $(4 \times 2) \times 7$
- B.  $4 \times 14$
- C.  $8 \times 7$
- D.  $6 \times 7$

5) Which expression is not equal to  $10 \times (4 \times 5)$

- A.  $10 \times 20$
- B.  $44 \times 5$
- C.  $(10 \times 4) \times 5$
- D.  $40 \times 5$

6) Which expression is not equal to  $10 \times (9 \times 5)$

- A.  $90 \times 5$
- B.  $(10 \times 9) \times 5$
- C.  $(10 + 9) \times 5$
- D.  $10 \times 45$

7) Which expression is not equal to  $(6 \times 3) \times 5$

- A.  $6 \times (3 \times 5)$
- B.  $6 \times 15$
- C.  $15 \times 5$
- D.  $18 \times 5$

8) Which expression is not equal to  $(7 \times 5) \times 9$

- A.  $35 \times 9$
- B.  $7 \times (5 \times 9)$
- C.  $7 \times 45$
- D.  $7 + (5 \times 9)$

9) Which expression is not equal to  $4 \times (9 \times 2)$

- A.  $(4 \times 9) \times 2$
- B.  $4 \times 18$
- C.  $36 \times 2$
- D.  $27 \times 2$

10) Which expression is not equal to  $3 \times (10 \times 7)$

- A.  $(3 \times 10) \times 7$
- B.  $30 \times 7$
- C.  $3 \times 70$
- D.  $20 \times 7$

11) Which expression is not equal to  $(6 \times 7) \times 8$

- A.  $42 \times 8$
- B.  $6 \times (7 \times 8)$
- C.  $6 \times 56$
- D.  $6 + (7 \times 8)$

12) Which expression is not equal to  $(2 \times 8) \times 4$

- A.  $2 + (8 \times 4)$
- B.  $2 \times 32$
- C.  $2 \times (8 \times 4)$
- D.  $16 \times 4$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(6 \times 4) \times 10$

- A.  $6 \times 36$
- B.  $24 \times 10$
- C.  $6 \times (4 \times 10)$
- D.  $6 \times 40$

2) Which expression is not equal to  $(8 \times 2) \times 10$

- A.  $16 \times 10$
- B.  $8 \times 20$
- C.  $8 \times (2 \times 10)$
- D.  $8 + (2 \times 10)$

3) Which expression is not equal to  $3 \times (9 \times 10)$

- A.  $(3 \times 9) \times 10$
- B.  $27 \times 10$
- C.  $18 \times 10$
- D.  $3 \times 90$

4) Which expression is not equal to  $4 \times (2 \times 7)$

- A.  $(4 \times 2) \times 7$
- B.  $4 \times 14$
- C.  $8 \times 7$
- D.  $6 \times 7$

5) Which expression is not equal to  $10 \times (4 \times 5)$

- A.  $10 \times 20$
- B.  $44 \times 5$
- C.  $(10 \times 4) \times 5$
- D.  $40 \times 5$

6) Which expression is not equal to  $10 \times (9 \times 5)$

- A.  $90 \times 5$
- B.  $(10 \times 9) \times 5$
- C.  $(10 + 9) \times 5$
- D.  $10 \times 45$

7) Which expression is not equal to  $(6 \times 3) \times 5$

- A.  $6 \times (3 \times 5)$
- B.  $6 \times 15$
- C.  $15 \times 5$
- D.  $18 \times 5$

8) Which expression is not equal to  $(7 \times 5) \times 9$

- A.  $35 \times 9$
- B.  $7 \times (5 \times 9)$
- C.  $7 \times 45$
- D.  $7 + (5 \times 9)$

9) Which expression is not equal to  $4 \times (9 \times 2)$

- A.  $(4 \times 9) \times 2$
- B.  $4 \times 18$
- C.  $36 \times 2$
- D.  $27 \times 2$

10) Which expression is not equal to  $3 \times (10 \times 7)$

- A.  $(3 \times 10) \times 7$
- B.  $30 \times 7$
- C.  $3 \times 70$
- D.  $20 \times 7$

11) Which expression is not equal to  $(6 \times 7) \times 8$

- A.  $42 \times 8$
- B.  $6 \times (7 \times 8)$
- C.  $6 \times 56$
- D.  $6 + (7 \times 8)$

12) Which expression is not equal to  $(2 \times 8) \times 4$

- A.  $2 + (8 \times 4)$
- B.  $2 \times 32$
- C.  $2 \times (8 \times 4)$
- D.  $16 \times 4$

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



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(5 \times 7) \times 2$

- A.  $5 \times 14$
- B.  $5 \times (7 \times 2)$
- C.  $5 \times 21$
- D.  $35 \times 2$

2) Which expression is not equal to  $4 \times (10 \times 2)$

- A.  $4 \times 20$
- B.  $(4 \times 10) \times 2$
- C.  $(4 + 10) \times 2$
- D.  $40 \times 2$

3) Which expression is not equal to  $5 \times (8 \times 6)$

- A.  $(5 + 8) \times 6$
- B.  $5 \times 48$
- C.  $40 \times 6$
- D.  $(5 \times 8) \times 6$

4) Which expression is not equal to  $4 \times (5 \times 9)$

- A.  $15 \times 9$
- B.  $(4 \times 5) \times 9$
- C.  $4 \times 45$
- D.  $20 \times 9$

5) Which expression is not equal to  $(8 \times 5) \times 2$

- A.  $40 \times 2$
- B.  $8 \times (5 \times 2)$
- C.  $8 \times 10$
- D.  $35 \times 2$

6) Which expression is not equal to  $10 \times (3 \times 9)$

- A.  $30 \times 9$
- B.  $10 \times 27$
- C.  $(10 + 3) \times 9$
- D.  $(10 \times 3) \times 9$

7) Which expression is not equal to  $(5 \times 7) \times 2$

- A.  $42 \times 2$
- B.  $5 \times (7 \times 2)$
- C.  $5 \times 14$
- D.  $35 \times 2$

8) Which expression is not equal to  $2 \times (8 \times 4)$

- A.  $(2 \times 8) \times 4$
- B.  $16 \times 4$
- C.  $2 \times 32$
- D.  $2 \times 40$

9) Which expression is not equal to  $5 \times (7 \times 3)$

- A.  $28 \times 3$
- B.  $(5 \times 7) \times 3$
- C.  $5 \times 21$
- D.  $35 \times 3$

10) Which expression is not equal to  $2 \times (10 \times 4)$

- A.  $2 \times 30$
- B.  $2 \times 40$
- C.  $20 \times 4$
- D.  $(2 \times 10) \times 4$

11) Which expression is not equal to  $(7 \times 10) \times 8$

- A.  $70 \times 8$
- B.  $7 \times (10 \times 8)$
- C.  $7 \times 80$
- D.  $60 \times 8$

12) Which expression is not equal to  $9 \times (10 \times 5)$

- A.  $9 \times 60$
- B.  $9 \times 50$
- C.  $(9 \times 10) \times 5$
- D.  $90 \times 5$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(5 \times 7) \times 2$

- A.  $5 \times 14$
- B.  $5 \times (7 \times 2)$
- C.  $5 \times 21$
- D.  $35 \times 2$

2) Which expression is not equal to  $4 \times (10 \times 2)$

- A.  $4 \times 20$
- B.  $(4 \times 10) \times 2$
- C.  $(4 + 10) \times 2$
- D.  $40 \times 2$

3) Which expression is not equal to  $5 \times (8 \times 6)$

- A.  $(5 + 8) \times 6$
- B.  $5 \times 48$
- C.  $40 \times 6$
- D.  $(5 \times 8) \times 6$

4) Which expression is not equal to  $4 \times (5 \times 9)$

- A.  $15 \times 9$
- B.  $(4 \times 5) \times 9$
- C.  $4 \times 45$
- D.  $20 \times 9$

5) Which expression is not equal to  $(8 \times 5) \times 2$

- A.  $40 \times 2$
- B.  $8 \times (5 \times 2)$
- C.  $8 \times 10$
- D.  $35 \times 2$

6) Which expression is not equal to  $10 \times (3 \times 9)$

- A.  $30 \times 9$
- B.  $10 \times 27$
- C.  $(10 + 3) \times 9$
- D.  $(10 \times 3) \times 9$

7) Which expression is not equal to  $(5 \times 7) \times 2$

- A.  $42 \times 2$
- B.  $5 \times (7 \times 2)$
- C.  $5 \times 14$
- D.  $35 \times 2$

8) Which expression is not equal to  $2 \times (8 \times 4)$

- A.  $(2 \times 8) \times 4$
- B.  $16 \times 4$
- C.  $2 \times 32$
- D.  $2 \times 40$

9) Which expression is not equal to  $5 \times (7 \times 3)$

- A.  $28 \times 3$
- B.  $(5 \times 7) \times 3$
- C.  $5 \times 21$
- D.  $35 \times 3$

10) Which expression is not equal to  $2 \times (10 \times 4)$

- A.  $2 \times 30$
- B.  $2 \times 40$
- C.  $20 \times 4$
- D.  $(2 \times 10) \times 4$

11) Which expression is not equal to  $(7 \times 10) \times 8$

- A.  $70 \times 8$
- B.  $7 \times (10 \times 8)$
- C.  $7 \times 80$
- D.  $60 \times 8$

12) Which expression is not equal to  $9 \times (10 \times 5)$

- A.  $9 \times 60$
- B.  $9 \times 50$
- C.  $(9 \times 10) \times 5$
- D.  $90 \times 5$

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



**Determine which choice is not an equivalent equation.**

**Answers**

1) Which expression is not equal to  $(8 \times 6) \times 4$

- A.  $8 \times 18$
- B.  $48 \times 4$
- C.  $8 \times (6 \times 4)$
- D.  $8 \times 24$

2) Which expression is not equal to  $7 \times (3 \times 4)$

- A.  $(7 \times 3) \times 4$
- B.  $(7 + 3) \times 4$
- C.  $7 \times 12$
- D.  $21 \times 4$

3) Which expression is not equal to  $7 \times (9 \times 2)$

- A.  $72 \times 2$
- B.  $63 \times 2$
- C.  $7 \times 18$
- D.  $(7 \times 9) \times 2$

4) Which expression is not equal to  $6 \times (9 \times 5)$

- A.  $54 \times 5$
- B.  $(6 \times 9) \times 5$
- C.  $63 \times 5$
- D.  $6 \times 45$

5) Which expression is not equal to  $3 \times (4 \times 5)$

- A.  $(3 \times 4) \times 5$
- B.  $12 \times 5$
- C.  $(3 + 4) \times 5$
- D.  $3 \times 20$

6) Which expression is not equal to  $10 \times (7 \times 2)$

- A.  $10 \times 14$
- B.  $(10 \times 7) \times 2$
- C.  $77 \times 2$
- D.  $70 \times 2$

7) Which expression is not equal to  $10 \times (9 \times 6)$

- A.  $(10 + 9) \times 6$
- B.  $(10 \times 9) \times 6$
- C.  $10 \times 54$
- D.  $90 \times 6$

8) Which expression is not equal to  $(8 \times 9) \times 2$

- A.  $63 \times 2$
- B.  $72 \times 2$
- C.  $8 \times (9 \times 2)$
- D.  $8 \times 18$

9) Which expression is not equal to  $(9 \times 2) \times 8$

- A.  $9 \times (2 \times 8)$
- B.  $18 \times 8$
- C.  $9 \times 16$
- D.  $9 + (2 \times 8)$

10) Which expression is not equal to  $2 \times (10 \times 8)$

- A.  $(2 \times 10) \times 8$
- B.  $2 \times 70$
- C.  $20 \times 8$
- D.  $2 \times 80$

11) Which expression is not equal to  $(2 \times 6) \times 5$

- A.  $2 \times 30$
- B.  $2 \times 36$
- C.  $12 \times 5$
- D.  $2 \times (6 \times 5)$

12) Which expression is not equal to  $3 \times (10 \times 7)$

- A.  $(3 + 10) \times 7$
- B.  $30 \times 7$
- C.  $3 \times 70$
- D.  $(3 \times 10) \times 7$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(8 \times 6) \times 4$

- A.  $8 \times 18$
- B.  $48 \times 4$
- C.  $8 \times (6 \times 4)$
- D.  $8 \times 24$

2) Which expression is not equal to  $7 \times (3 \times 4)$

- A.  $(7 \times 3) \times 4$
- B.  $(7 + 3) \times 4$
- C.  $7 \times 12$
- D.  $21 \times 4$

3) Which expression is not equal to  $7 \times (9 \times 2)$

- A.  $72 \times 2$
- B.  $63 \times 2$
- C.  $7 \times 18$
- D.  $(7 \times 9) \times 2$

4) Which expression is not equal to  $6 \times (9 \times 5)$

- A.  $54 \times 5$
- B.  $(6 \times 9) \times 5$
- C.  $63 \times 5$
- D.  $6 \times 45$

5) Which expression is not equal to  $3 \times (4 \times 5)$

- A.  $(3 \times 4) \times 5$
- B.  $12 \times 5$
- C.  $(3 + 4) \times 5$
- D.  $3 \times 20$

6) Which expression is not equal to  $10 \times (7 \times 2)$

- A.  $10 \times 14$
- B.  $(10 \times 7) \times 2$
- C.  $77 \times 2$
- D.  $70 \times 2$

7) Which expression is not equal to  $10 \times (9 \times 6)$

- A.  $(10 + 9) \times 6$
- B.  $(10 \times 9) \times 6$
- C.  $10 \times 54$
- D.  $90 \times 6$

8) Which expression is not equal to  $(8 \times 9) \times 2$

- A.  $63 \times 2$
- B.  $72 \times 2$
- C.  $8 \times (9 \times 2)$
- D.  $8 \times 18$

9) Which expression is not equal to  $(9 \times 2) \times 8$

- A.  $9 \times (2 \times 8)$
- B.  $18 \times 8$
- C.  $9 \times 16$
- D.  $9 + (2 \times 8)$

10) Which expression is not equal to  $2 \times (10 \times 8)$

- A.  $(2 \times 10) \times 8$
- B.  $2 \times 70$
- C.  $20 \times 8$
- D.  $2 \times 80$

11) Which expression is not equal to  $(2 \times 6) \times 5$

- A.  $2 \times 30$
- B.  $2 \times 36$
- C.  $12 \times 5$
- D.  $2 \times (6 \times 5)$

12) Which expression is not equal to  $3 \times (10 \times 7)$

- A.  $(3 + 10) \times 7$
- B.  $30 \times 7$
- C.  $3 \times 70$
- D.  $(3 \times 10) \times 7$

1.   **A**  

2.   **B**  

3.   **A**  

4.   **C**  

5.   **C**  

6.   **C**  

7.   **A**  

8.   **A**  

9.   **D**  

10.   **B**  

11.   **B**  

12.   **A**





Determine which choice is not an equivalent equation.

**Answers**

- 1) Which expression is not equal to  $(8 \times 4) \times 3$   
 A.  $8 + (4 \times 3)$   
 B.  $32 \times 3$   
 C.  $8 \times 12$   
 D.  $8 \times (4 \times 3)$

- 2) Which expression is not equal to  $(9 \times 6) \times 8$   
 A.  $9 \times (6 \times 8)$   
 B.  $54 \times 8$   
 C.  $9 \times 48$   
 D.  $9 \times 54$

- 3) Which expression is not equal to  $7 \times (8 \times 10)$   
 A.  $(7 \times 8) \times 10$   
 B.  $48 \times 10$   
 C.  $56 \times 10$   
 D.  $7 \times 80$

- 4) Which expression is not equal to  $(7 \times 4) \times 9$   
 A.  $7 \times (4 \times 9)$   
 B.  $7 + (4 \times 9)$   
 C.  $7 \times 36$   
 D.  $28 \times 9$

- 5) Which expression is not equal to  $3 \times (4 \times 5)$   
 A.  $(3 \times 4) \times 5$   
 B.  $3 \times 20$   
 C.  $3 \times 16$   
 D.  $12 \times 5$

- 6) Which expression is not equal to  $(10 \times 6) \times 8$   
 A.  $10 + (6 \times 8)$   
 B.  $10 \times (6 \times 8)$   
 C.  $60 \times 8$   
 D.  $10 \times 48$

- 7) Which expression is not equal to  $(8 \times 5) \times 10$   
 A.  $8 \times (5 \times 10)$   
 B.  $8 + (5 \times 10)$   
 C.  $8 \times 50$   
 D.  $40 \times 10$

- 8) Which expression is not equal to  $(2 \times 5) \times 8$   
 A.  $2 + (5 \times 8)$   
 B.  $10 \times 8$   
 C.  $2 \times 40$   
 D.  $2 \times (5 \times 8)$

- 9) Which expression is not equal to  $10 \times (7 \times 9)$   
 A.  $63 \times 9$   
 B.  $(10 \times 7) \times 9$   
 C.  $70 \times 9$   
 D.  $10 \times 63$

- 10) Which expression is not equal to  $3 \times (10 \times 6)$   
 A.  $(3 \times 10) \times 6$   
 B.  $3 \times 60$   
 C.  $3 \times 70$   
 D.  $30 \times 6$

- 11) Which expression is not equal to  $5 \times (9 \times 10)$   
 A.  $5 \times 90$   
 B.  $(5 \times 9) \times 10$   
 C.  $(5 + 9) \times 10$   
 D.  $45 \times 10$

- 12) Which expression is not equal to  $(4 \times 3) \times 2$   
 A.  $4 \times 3$   
 B.  $4 \times 6$   
 C.  $12 \times 2$   
 D.  $4 \times (3 \times 2)$

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11. \_\_\_\_\_
12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(8 \times 4) \times 3$

- A.  $8 + (4 \times 3)$
- B.  $32 \times 3$
- C.  $8 \times 12$
- D.  $8 \times (4 \times 3)$

2) Which expression is not equal to  $(9 \times 6) \times 8$

- A.  $9 \times (6 \times 8)$
- B.  $54 \times 8$
- C.  $9 \times 48$
- D.  $9 \times 54$

3) Which expression is not equal to  $7 \times (8 \times 10)$

- A.  $(7 \times 8) \times 10$
- B.  $48 \times 10$
- C.  $56 \times 10$
- D.  $7 \times 80$

4) Which expression is not equal to  $(7 \times 4) \times 9$

- A.  $7 \times (4 \times 9)$
- B.  $7 + (4 \times 9)$
- C.  $7 \times 36$
- D.  $28 \times 9$

5) Which expression is not equal to  $3 \times (4 \times 5)$

- A.  $(3 \times 4) \times 5$
- B.  $3 \times 20$
- C.  $3 \times 16$
- D.  $12 \times 5$

6) Which expression is not equal to  $(10 \times 6) \times 8$

- A.  $10 + (6 \times 8)$
- B.  $10 \times (6 \times 8)$
- C.  $60 \times 8$
- D.  $10 \times 48$

7) Which expression is not equal to  $(8 \times 5) \times 10$

- A.  $8 \times (5 \times 10)$
- B.  $8 + (5 \times 10)$
- C.  $8 \times 50$
- D.  $40 \times 10$

8) Which expression is not equal to  $(2 \times 5) \times 8$

- A.  $2 + (5 \times 8)$
- B.  $10 \times 8$
- C.  $2 \times 40$
- D.  $2 \times (5 \times 8)$

9) Which expression is not equal to  $10 \times (7 \times 9)$

- A.  $63 \times 9$
- B.  $(10 \times 7) \times 9$
- C.  $70 \times 9$
- D.  $10 \times 63$

10) Which expression is not equal to  $3 \times (10 \times 6)$

- A.  $(3 \times 10) \times 6$
- B.  $3 \times 60$
- C.  $3 \times 70$
- D.  $30 \times 6$

11) Which expression is not equal to  $5 \times (9 \times 10)$

- A.  $5 \times 90$
- B.  $(5 \times 9) \times 10$
- C.  $(5 + 9) \times 10$
- D.  $45 \times 10$

12) Which expression is not equal to  $(4 \times 3) \times 2$

- A.  $4 \times 3$
- B.  $4 \times 6$
- C.  $12 \times 2$
- D.  $4 \times (3 \times 2)$

1.   **A**  

2.   **D**  

3.   **B**  

4.   **B**  

5.   **C**  

6.   **A**  

7.   **B**  

8.   **A**  

9.   **A**  

10.   **C**  

11.   **C**  

12.   **A**



**Determine which choice is not an equivalent equation.**

**Answers**

1) Which expression is not equal to  $5 \times (9 \times 3)$

- A.  $36 \times 3$
- B.  $(5 \times 9) \times 3$
- C.  $5 \times 27$
- D.  $45 \times 3$

2) Which expression is not equal to  $(7 \times 9) \times 4$

- A.  $7 \times 36$
- B.  $7 + (9 \times 4)$
- C.  $63 \times 4$
- D.  $7 \times (9 \times 4)$

3) Which expression is not equal to  $(9 \times 7) \times 8$

- A.  $63 \times 8$
- B.  $9 \times (7 \times 8)$
- C.  $9 \times 49$
- D.  $9 \times 56$

4) Which expression is not equal to  $(4 \times 10) \times 6$

- A.  $4 \times (10 \times 6)$
- B.  $40 \times 6$
- C.  $4 \times 60$
- D.  $50 \times 6$

5) Which expression is not equal to  $9 \times (2 \times 7)$

- A.  $(9 \times 2) \times 7$
- B.  $18 \times 7$
- C.  $9 \times 14$
- D.  $9 \times 16$

6) Which expression is not equal to  $6 \times (5 \times 4)$

- A.  $(6 \times 5) \times 4$
- B.  $6 \times 20$
- C.  $30 \times 4$
- D.  $6 \times 15$

7) Which expression is not equal to  $(9 \times 10) \times 8$

- A.  $9 \times (10 \times 8)$
- B.  $90 \times 8$
- C.  $100 \times 8$
- D.  $9 \times 80$

8) Which expression is not equal to  $9 \times (4 \times 3)$

- A.  $36 \times 3$
- B.  $40 \times 3$
- C.  $9 \times 12$
- D.  $(9 \times 4) \times 3$

9) Which expression is not equal to  $(3 \times 9) \times 4$

- A.  $3 \times (9 \times 4)$
- B.  $3 \times 36$
- C.  $36 \times 4$
- D.  $27 \times 4$

10) Which expression is not equal to  $(2 \times 9) \times 3$

- A.  $2 \times 27$
- B.  $2 \times (9 \times 3)$
- C.  $18 \times 3$
- D.  $2 \times 18$

11) Which expression is not equal to  $(10 \times 7) \times 9$

- A.  $10 \times (7 \times 9)$
- B.  $10 \times 70$
- C.  $70 \times 9$
- D.  $10 \times 63$

12) Which expression is not equal to  $(9 \times 8) \times 2$

- A.  $9 \times 16$
- B.  $80 \times 2$
- C.  $72 \times 2$
- D.  $9 \times (8 \times 2)$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
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- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $5 \times (9 \times 3)$

- A.  $36 \times 3$
- B.  $(5 \times 9) \times 3$
- C.  $5 \times 27$
- D.  $45 \times 3$

2) Which expression is not equal to  $(7 \times 9) \times 4$

- A.  $7 \times 36$
- B.  $7 + (9 \times 4)$
- C.  $63 \times 4$
- D.  $7 \times (9 \times 4)$

3) Which expression is not equal to  $(9 \times 7) \times 8$

- A.  $63 \times 8$
- B.  $9 \times (7 \times 8)$
- C.  $9 \times 49$
- D.  $9 \times 56$

4) Which expression is not equal to  $(4 \times 10) \times 6$

- A.  $4 \times (10 \times 6)$
- B.  $40 \times 6$
- C.  $4 \times 60$
- D.  $50 \times 6$

5) Which expression is not equal to  $9 \times (2 \times 7)$

- A.  $(9 \times 2) \times 7$
- B.  $18 \times 7$
- C.  $9 \times 14$
- D.  $9 \times 16$

6) Which expression is not equal to  $6 \times (5 \times 4)$

- A.  $(6 \times 5) \times 4$
- B.  $6 \times 20$
- C.  $30 \times 4$
- D.  $6 \times 15$

7) Which expression is not equal to  $(9 \times 10) \times 8$

- A.  $9 \times (10 \times 8)$
- B.  $90 \times 8$
- C.  $100 \times 8$
- D.  $9 \times 80$

8) Which expression is not equal to  $9 \times (4 \times 3)$

- A.  $36 \times 3$
- B.  $40 \times 3$
- C.  $9 \times 12$
- D.  $(9 \times 4) \times 3$

9) Which expression is not equal to  $(3 \times 9) \times 4$

- A.  $3 \times (9 \times 4)$
- B.  $3 \times 36$
- C.  $36 \times 4$
- D.  $27 \times 4$

10) Which expression is not equal to  $(2 \times 9) \times 3$

- A.  $2 \times 27$
- B.  $2 \times (9 \times 3)$
- C.  $18 \times 3$
- D.  $2 \times 18$

11) Which expression is not equal to  $(10 \times 7) \times 9$

- A.  $10 \times (7 \times 9)$
- B.  $10 \times 70$
- C.  $70 \times 9$
- D.  $10 \times 63$

12) Which expression is not equal to  $(9 \times 8) \times 2$

- A.  $9 \times 16$
- B.  $80 \times 2$
- C.  $72 \times 2$
- D.  $9 \times (8 \times 2)$

1.   **A**  

2.   **B**  

3.   **C**  

4.   **D**  

5.   **D**  

6.   **D**  

7.   **C**  

8.   **B**  

9.   **C**  

10.   **D**  

11.   **B**  

12.   **B**



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $5 \times (8 \times 7)$

- A.  $40 \times 7$
- B.  $5 \times 48$
- C.  $5 \times 56$
- D.  $(5 \times 8) \times 7$

2) Which expression is not equal to  $4 \times (5 \times 6)$

- A.  $(4 \times 5) \times 6$
- B.  $20 \times 6$
- C.  $25 \times 6$
- D.  $4 \times 30$

3) Which expression is not equal to  $(6 \times 10) \times 5$

- A.  $60 \times 5$
- B.  $6 \times 60$
- C.  $6 \times 50$
- D.  $6 \times (10 \times 5)$

4) Which expression is not equal to  $(7 \times 5) \times 6$

- A.  $7 \times 35$
- B.  $35 \times 6$
- C.  $7 \times (5 \times 6)$
- D.  $7 \times 30$

5) Which expression is not equal to  $(5 \times 9) \times 3$

- A.  $5 \times (9 \times 3)$
- B.  $5 + (9 \times 3)$
- C.  $5 \times 27$
- D.  $45 \times 3$

6) Which expression is not equal to  $8 \times (4 \times 7)$

- A.  $32 \times 7$
- B.  $36 \times 7$
- C.  $(8 \times 4) \times 7$
- D.  $8 \times 28$

7) Which expression is not equal to  $3 \times (2 \times 4)$

- A.  $3 \times 8$
- B.  $6 \times 4$
- C.  $(3 \times 2) \times 4$
- D.  $3 \times 6$

8) Which expression is not equal to  $8 \times (5 \times 4)$

- A.  $8 \times 15$
- B.  $40 \times 4$
- C.  $(8 \times 5) \times 4$
- D.  $8 \times 20$

9) Which expression is not equal to  $(10 \times 7) \times 4$

- A.  $10 \times (7 \times 4)$
- B.  $10 \times 28$
- C.  $70 \times 4$
- D.  $10 + (7 \times 4)$

10) Which expression is not equal to  $5 \times (10 \times 4)$

- A.  $5 \times 40$
- B.  $5 \times 30$
- C.  $50 \times 4$
- D.  $(5 \times 10) \times 4$

11) Which expression is not equal to  $9 \times (5 \times 6)$

- A.  $9 \times 35$
- B.  $(9 \times 5) \times 6$
- C.  $9 \times 30$
- D.  $45 \times 6$

12) Which expression is not equal to  $(8 \times 5) \times 6$

- A.  $8 \times 30$
- B.  $8 \times (5 \times 6)$
- C.  $8 + (5 \times 6)$
- D.  $40 \times 6$

- 1. \_\_\_\_\_
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- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $5 \times (8 \times 7)$

- A.  $40 \times 7$
- B.  $5 \times 48$
- C.  $5 \times 56$
- D.  $(5 \times 8) \times 7$

2) Which expression is not equal to  $4 \times (5 \times 6)$

- A.  $(4 \times 5) \times 6$
- B.  $20 \times 6$
- C.  $25 \times 6$
- D.  $4 \times 30$

3) Which expression is not equal to  $(6 \times 10) \times 5$

- A.  $60 \times 5$
- B.  $6 \times 60$
- C.  $6 \times 50$
- D.  $6 \times (10 \times 5)$

4) Which expression is not equal to  $(7 \times 5) \times 6$

- A.  $7 \times 35$
- B.  $35 \times 6$
- C.  $7 \times (5 \times 6)$
- D.  $7 \times 30$

5) Which expression is not equal to  $(5 \times 9) \times 3$

- A.  $5 \times (9 \times 3)$
- B.  $5 + (9 \times 3)$
- C.  $5 \times 27$
- D.  $45 \times 3$

6) Which expression is not equal to  $8 \times (4 \times 7)$

- A.  $32 \times 7$
- B.  $36 \times 7$
- C.  $(8 \times 4) \times 7$
- D.  $8 \times 28$

7) Which expression is not equal to  $3 \times (2 \times 4)$

- A.  $3 \times 8$
- B.  $6 \times 4$
- C.  $(3 \times 2) \times 4$
- D.  $3 \times 6$

8) Which expression is not equal to  $8 \times (5 \times 4)$

- A.  $8 \times 15$
- B.  $40 \times 4$
- C.  $(8 \times 5) \times 4$
- D.  $8 \times 20$

9) Which expression is not equal to  $(10 \times 7) \times 4$

- A.  $10 \times (7 \times 4)$
- B.  $10 \times 28$
- C.  $70 \times 4$
- D.  $10 + (7 \times 4)$

10) Which expression is not equal to  $5 \times (10 \times 4)$

- A.  $5 \times 40$
- B.  $5 \times 30$
- C.  $50 \times 4$
- D.  $(5 \times 10) \times 4$

11) Which expression is not equal to  $9 \times (5 \times 6)$

- A.  $9 \times 35$
- B.  $(9 \times 5) \times 6$
- C.  $9 \times 30$
- D.  $45 \times 6$

12) Which expression is not equal to  $(8 \times 5) \times 6$

- A.  $8 \times 30$
- B.  $8 \times (5 \times 6)$
- C.  $8 + (5 \times 6)$
- D.  $40 \times 6$

1. **B**

2. **C**

3. **B**

4. **A**

5. **B**

6. **B**

7. **D**

8. **A**

9. **D**

10. **B**

11. **A**

12. **C**



**Determine which choice is not an equivalent equation.**

**Answers**

1) Which expression is not equal to  $(3 \times 6) \times 9$

- A.  $3 \times (6 \times 9)$
- B.  $12 \times 9$
- C.  $18 \times 9$
- D.  $3 \times 54$

2) Which expression is not equal to  $6 \times (10 \times 3)$

- A.  $6 \times 20$
- B.  $(6 \times 10) \times 3$
- C.  $60 \times 3$
- D.  $6 \times 30$

3) Which expression is not equal to  $5 \times (2 \times 3)$

- A.  $5 \times 6$
- B.  $5 \times 8$
- C.  $(5 \times 2) \times 3$
- D.  $10 \times 3$

4) Which expression is not equal to  $6 \times (9 \times 2)$

- A.  $(6 \times 9) \times 2$
- B.  $(6 + 9) \times 2$
- C.  $54 \times 2$
- D.  $6 \times 18$

5) Which expression is not equal to  $(8 \times 7) \times 10$

- A.  $8 \times (7 \times 10)$
- B.  $56 \times 10$
- C.  $8 \times 70$
- D.  $8 \times 77$

6) Which expression is not equal to  $(5 \times 10) \times 4$

- A.  $50 \times 4$
- B.  $5 + (10 \times 4)$
- C.  $5 \times 40$
- D.  $5 \times (10 \times 4)$

7) Which expression is not equal to  $2 \times (3 \times 6)$

- A.  $2 \times 18$
- B.  $6 \times 6$
- C.  $(2 + 3) \times 6$
- D.  $(2 \times 3) \times 6$

8) Which expression is not equal to  $9 \times (2 \times 10)$

- A.  $18 \times 10$
- B.  $9 \times 18$
- C.  $9 \times 20$
- D.  $(9 \times 2) \times 10$

9) Which expression is not equal to  $(5 \times 3) \times 7$

- A.  $5 \times 21$
- B.  $5 \times (3 \times 7)$
- C.  $15 \times 7$
- D.  $5 + (3 \times 7)$

10) Which expression is not equal to  $(3 \times 10) \times 6$

- A.  $3 \times (10 \times 6)$
- B.  $20 \times 6$
- C.  $3 \times 60$
- D.  $30 \times 6$

11) Which expression is not equal to  $10 \times (7 \times 3)$

- A.  $(10 \times 7) \times 3$
- B.  $10 \times 21$
- C.  $70 \times 3$
- D.  $63 \times 3$

12) Which expression is not equal to  $10 \times (5 \times 6)$

- A.  $10 \times 30$
- B.  $(10 \times 5) \times 6$
- C.  $50 \times 6$
- D.  $(10 + 5) \times 6$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(3 \times 6) \times 9$

- A.  $3 \times (6 \times 9)$
- B.  $12 \times 9$
- C.  $18 \times 9$
- D.  $3 \times 54$

2) Which expression is not equal to  $6 \times (10 \times 3)$

- A.  $6 \times 20$
- B.  $(6 \times 10) \times 3$
- C.  $60 \times 3$
- D.  $6 \times 30$

3) Which expression is not equal to  $5 \times (2 \times 3)$

- A.  $5 \times 6$
- B.  $5 \times 8$
- C.  $(5 \times 2) \times 3$
- D.  $10 \times 3$

4) Which expression is not equal to  $6 \times (9 \times 2)$

- A.  $(6 \times 9) \times 2$
- B.  $(6 + 9) \times 2$
- C.  $54 \times 2$
- D.  $6 \times 18$

5) Which expression is not equal to  $(8 \times 7) \times 10$

- A.  $8 \times (7 \times 10)$
- B.  $56 \times 10$
- C.  $8 \times 70$
- D.  $8 \times 77$

6) Which expression is not equal to  $(5 \times 10) \times 4$

- A.  $50 \times 4$
- B.  $5 + (10 \times 4)$
- C.  $5 \times 40$
- D.  $5 \times (10 \times 4)$

7) Which expression is not equal to  $2 \times (3 \times 6)$

- A.  $2 \times 18$
- B.  $6 \times 6$
- C.  $(2 + 3) \times 6$
- D.  $(2 \times 3) \times 6$

8) Which expression is not equal to  $9 \times (2 \times 10)$

- A.  $18 \times 10$
- B.  $9 \times 18$
- C.  $9 \times 20$
- D.  $(9 \times 2) \times 10$

9) Which expression is not equal to  $(5 \times 3) \times 7$

- A.  $5 \times 21$
- B.  $5 \times (3 \times 7)$
- C.  $15 \times 7$
- D.  $5 + (3 \times 7)$

10) Which expression is not equal to  $(3 \times 10) \times 6$

- A.  $3 \times (10 \times 6)$
- B.  $20 \times 6$
- C.  $3 \times 60$
- D.  $30 \times 6$

11) Which expression is not equal to  $10 \times (7 \times 3)$

- A.  $(10 \times 7) \times 3$
- B.  $10 \times 21$
- C.  $70 \times 3$
- D.  $63 \times 3$

12) Which expression is not equal to  $10 \times (5 \times 6)$

- A.  $10 \times 30$
- B.  $(10 \times 5) \times 6$
- C.  $50 \times 6$
- D.  $(10 + 5) \times 6$

1. **B**

2. **A**

3. **B**

4. **B**

5. **D**

6. **B**

7. **C**

8. **B**

9. **D**

10. **B**

11. **D**

12. **D**





**Determine which choice is not an equivalent equation.**

**Answers**

1) Which expression is not equal to  $(6 \times 10) \times 4$

- A.  $6 \times 40$
- B.  $6 \times (10 \times 4)$
- C.  $6 + (10 \times 4)$
- D.  $60 \times 4$

2) Which expression is not equal to  $8 \times (3 \times 5)$

- A.  $(8 \times 3) \times 5$
- B.  $24 \times 5$
- C.  $8 \times 15$
- D.  $(8 + 3) \times 5$

3) Which expression is not equal to  $2 \times (9 \times 5)$

- A.  $18 \times 5$
- B.  $27 \times 5$
- C.  $(2 \times 9) \times 5$
- D.  $2 \times 45$

4) Which expression is not equal to  $(6 \times 7) \times 8$

- A.  $42 \times 8$
- B.  $6 + (7 \times 8)$
- C.  $6 \times (7 \times 8)$
- D.  $6 \times 56$

5) Which expression is not equal to  $2 \times (3 \times 9)$

- A.  $2 \times 30$
- B.  $(2 \times 3) \times 9$
- C.  $2 \times 27$
- D.  $6 \times 9$

6) Which expression is not equal to  $(6 \times 8) \times 4$

- A.  $6 \times (8 \times 4)$
- B.  $48 \times 4$
- C.  $56 \times 4$
- D.  $6 \times 32$

7) Which expression is not equal to  $(2 \times 3) \times 8$

- A.  $6 \times 8$
- B.  $2 \times (3 \times 8)$
- C.  $2 + (3 \times 8)$
- D.  $2 \times 24$

8) Which expression is not equal to  $(4 \times 6) \times 3$

- A.  $4 \times 18$
- B.  $24 \times 3$
- C.  $4 \times 24$
- D.  $4 \times (6 \times 3)$

9) Which expression is not equal to  $(3 \times 6) \times 4$

- A.  $3 \times 24$
- B.  $24 \times 4$
- C.  $3 \times (6 \times 4)$
- D.  $18 \times 4$

10) Which expression is not equal to  $3 \times (2 \times 9)$

- A.  $6 \times 9$
- B.  $3 \times 18$
- C.  $(3 \times 2) \times 9$
- D.  $(3 + 2) \times 9$

11) Which expression is not equal to  $(7 \times 8) \times 6$

- A.  $7 \times 48$
- B.  $7 \times 40$
- C.  $56 \times 6$
- D.  $7 \times (8 \times 6)$

12) Which expression is not equal to  $10 \times (6 \times 5)$

- A.  $(10 + 6) \times 5$
- B.  $(10 \times 6) \times 5$
- C.  $60 \times 5$
- D.  $10 \times 30$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $(6 \times 10) \times 4$

- A.  $6 \times 40$
- B.  $6 \times (10 \times 4)$
- C.  $6 + (10 \times 4)$
- D.  $60 \times 4$

2) Which expression is not equal to  $8 \times (3 \times 5)$

- A.  $(8 \times 3) \times 5$
- B.  $24 \times 5$
- C.  $8 \times 15$
- D.  $(8 + 3) \times 5$

3) Which expression is not equal to  $2 \times (9 \times 5)$

- A.  $18 \times 5$
- B.  $27 \times 5$
- C.  $(2 \times 9) \times 5$
- D.  $2 \times 45$

4) Which expression is not equal to  $(6 \times 7) \times 8$

- A.  $42 \times 8$
- B.  $6 + (7 \times 8)$
- C.  $6 \times (7 \times 8)$
- D.  $6 \times 56$

5) Which expression is not equal to  $2 \times (3 \times 9)$

- A.  $2 \times 30$
- B.  $(2 \times 3) \times 9$
- C.  $2 \times 27$
- D.  $6 \times 9$

6) Which expression is not equal to  $(6 \times 8) \times 4$

- A.  $6 \times (8 \times 4)$
- B.  $48 \times 4$
- C.  $56 \times 4$
- D.  $6 \times 32$

7) Which expression is not equal to  $(2 \times 3) \times 8$

- A.  $6 \times 8$
- B.  $2 \times (3 \times 8)$
- C.  $2 + (3 \times 8)$
- D.  $2 \times 24$

8) Which expression is not equal to  $(4 \times 6) \times 3$

- A.  $4 \times 18$
- B.  $24 \times 3$
- C.  $4 \times 24$
- D.  $4 \times (6 \times 3)$

9) Which expression is not equal to  $(3 \times 6) \times 4$

- A.  $3 \times 24$
- B.  $24 \times 4$
- C.  $3 \times (6 \times 4)$
- D.  $18 \times 4$

10) Which expression is not equal to  $3 \times (2 \times 9)$

- A.  $6 \times 9$
- B.  $3 \times 18$
- C.  $(3 \times 2) \times 9$
- D.  $(3 + 2) \times 9$

11) Which expression is not equal to  $(7 \times 8) \times 6$

- A.  $7 \times 48$
- B.  $7 \times 40$
- C.  $56 \times 6$
- D.  $7 \times (8 \times 6)$

12) Which expression is not equal to  $10 \times (6 \times 5)$

- A.  $(10 + 6) \times 5$
- B.  $(10 \times 6) \times 5$
- C.  $60 \times 5$
- D.  $10 \times 30$

1.   **C**  

2.   **D**  

3.   **B**  

4.   **B**  

5.   **A**  

6.   **C**  

7.   **C**  

8.   **C**  

9.   **B**  

10.   **D**  

11.   **B**  

12.   **A**



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $4 \times (2 \times 10)$

- A.  $10 \times 10$
- B.  $(4 \times 2) \times 10$
- C.  $8 \times 10$
- D.  $4 \times 20$

2) Which expression is not equal to  $(2 \times 3) \times 4$

- A.  $2 \times (3 \times 4)$
- B.  $6 \times 4$
- C.  $2 \times 9$
- D.  $2 \times 12$

3) Which expression is not equal to  $8 \times (9 \times 7)$

- A.  $(8 \times 9) \times 7$
- B.  $72 \times 7$
- C.  $(8 + 9) \times 7$
- D.  $8 \times 63$

4) Which expression is not equal to  $9 \times (7 \times 3)$

- A.  $(9 \times 7) \times 3$
- B.  $63 \times 3$
- C.  $(9 + 7) \times 3$
- D.  $9 \times 21$

5) Which expression is not equal to  $4 \times (6 \times 2)$

- A.  $4 \times 18$
- B.  $(4 \times 6) \times 2$
- C.  $4 \times 12$
- D.  $24 \times 2$

6) Which expression is not equal to  $3 \times (9 \times 6)$

- A.  $27 \times 6$
- B.  $3 \times 54$
- C.  $(3 \times 9) \times 6$
- D.  $(3 + 9) \times 6$

7) Which expression is not equal to  $(5 \times 8) \times 6$

- A.  $5 \times 48$
- B.  $32 \times 6$
- C.  $5 \times (8 \times 6)$
- D.  $40 \times 6$

8) Which expression is not equal to  $(6 \times 5) \times 7$

- A.  $6 \times 40$
- B.  $6 \times 35$
- C.  $6 \times (5 \times 7)$
- D.  $30 \times 7$

9) Which expression is not equal to  $4 \times (6 \times 9)$

- A.  $(4 + 6) \times 9$
- B.  $(4 \times 6) \times 9$
- C.  $24 \times 9$
- D.  $4 \times 54$

10) Which expression is not equal to  $5 \times (6 \times 10)$

- A.  $30 \times 10$
- B.  $(5 \times 6) \times 10$
- C.  $5 \times 60$
- D.  $36 \times 10$

11) Which expression is not equal to  $8 \times (7 \times 3)$

- A.  $8 \times 21$
- B.  $49 \times 3$
- C.  $56 \times 3$
- D.  $(8 \times 7) \times 3$

12) Which expression is not equal to  $(4 \times 2) \times 7$

- A.  $4 \times 12$
- B.  $4 \times (2 \times 7)$
- C.  $8 \times 7$
- D.  $4 \times 14$

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_
- 7. \_\_\_\_\_
- 8. \_\_\_\_\_
- 9. \_\_\_\_\_
- 10. \_\_\_\_\_
- 11. \_\_\_\_\_
- 12. \_\_\_\_\_



Determine which choice is not an equivalent equation.

**Answers**

1) Which expression is not equal to  $4 \times (2 \times 10)$

- A.  $10 \times 10$
- B.  $(4 \times 2) \times 10$
- C.  $8 \times 10$
- D.  $4 \times 20$

2) Which expression is not equal to  $(2 \times 3) \times 4$

- A.  $2 \times (3 \times 4)$
- B.  $6 \times 4$
- C.  $2 \times 9$
- D.  $2 \times 12$

3) Which expression is not equal to  $8 \times (9 \times 7)$

- A.  $(8 \times 9) \times 7$
- B.  $72 \times 7$
- C.  $(8 + 9) \times 7$
- D.  $8 \times 63$

4) Which expression is not equal to  $9 \times (7 \times 3)$

- A.  $(9 \times 7) \times 3$
- B.  $63 \times 3$
- C.  $(9 + 7) \times 3$
- D.  $9 \times 21$

5) Which expression is not equal to  $4 \times (6 \times 2)$

- A.  $4 \times 18$
- B.  $(4 \times 6) \times 2$
- C.  $4 \times 12$
- D.  $24 \times 2$

6) Which expression is not equal to  $3 \times (9 \times 6)$

- A.  $27 \times 6$
- B.  $3 \times 54$
- C.  $(3 \times 9) \times 6$
- D.  $(3 + 9) \times 6$

7) Which expression is not equal to  $(5 \times 8) \times 6$

- A.  $5 \times 48$
- B.  $32 \times 6$
- C.  $5 \times (8 \times 6)$
- D.  $40 \times 6$

8) Which expression is not equal to  $(6 \times 5) \times 7$

- A.  $6 \times 40$
- B.  $6 \times 35$
- C.  $6 \times (5 \times 7)$
- D.  $30 \times 7$

9) Which expression is not equal to  $4 \times (6 \times 9)$

- A.  $(4 + 6) \times 9$
- B.  $(4 \times 6) \times 9$
- C.  $24 \times 9$
- D.  $4 \times 54$

10) Which expression is not equal to  $5 \times (6 \times 10)$

- A.  $30 \times 10$
- B.  $(5 \times 6) \times 10$
- C.  $5 \times 60$
- D.  $36 \times 10$

11) Which expression is not equal to  $8 \times (7 \times 3)$

- A.  $8 \times 21$
- B.  $49 \times 3$
- C.  $56 \times 3$
- D.  $(8 \times 7) \times 3$

12) Which expression is not equal to  $(4 \times 2) \times 7$

- A.  $4 \times 12$
- B.  $4 \times (2 \times 7)$
- C.  $8 \times 7$
- D.  $4 \times 14$

1.   **A**  

2.   **C**  

3.   **C**  

4.   **C**  

5.   **A**  

6.   **D**  

7.   **B**  

8.   **A**  

9.   **A**  

10.   **D**  

11.   **B**  

12.   **A**