Determine which choice is not an equivalent equation.

1) Which expression is not equal to
$(4 \times 5) \times 8$
A. 15×8
B. 4×40
C. $4 \times (5 \times 8)$
D. 20×8

2) Which expression is not equal to
$(9 \times 8) \times 5$
A. 9×48
B. 72×5
C. 9×40
D. $9 \times (8 \times 5)$

3) Which expression is not equal to
$(5 \times 6) \times 9$
A. 30×9
B. 24×9
C. 5×54
D. $5 \times (6 \times 9)$

4) Which expression is not equal to
$(3 \times 10) \times 7$
A. 3×70
B. $3 \times (10 \times 7)$
C. 3×80
D. 30×7

5) Which expression is not equal to
$3 \times (6 \times 4)$
A. 3×24
B. 12×4
C. 18×4
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. 9×3
C. 27×2
D. 9×6

7) Which expression is not equal to
$10 \times (7 \times 9)$
A. $(10 \times 7) \times 9$
B. 70×9
C. 10×63
D. 77×9

8) Which expression is not equal to
$(6 \times 2) \times 9$
A. 12×9
B. 6×18
C. $6 + (2 \times 9)$
D. $6 \times (2 \times 9)$

9) Which expression is not equal to
$(8 \times 3) \times 2$
A. 8×6
B. 27×2
C. $8 \times (3 \times 2)$
D. 24×2

10) Which expression is not equal to
$5 \times (4 \times 9)$
A. $(5 + 4) \times 9$
B. $(5 \times 4) \times 9$
C. 5×36
D. 20×9

11) Which expression is not equal to
$(3 \times 9) \times 7$
A. $3 \times (9 \times 7)$
B. 27×7
C. 36×7
D. 3×63

12) Which expression is not equal to
$4 \times (5 \times 6)$
A. 20×6
B. $(4 \times 5) \times 6$
C. 15×6
D. 4×30

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

Name:

Determine which choice is not an equivalent equation.

1) Which expression is not equal to
(4 × 5) × 8
A. 15 × 8
B. 4 × 40
C. 4 × (5 × 8)
D. 20 × 8

2) Which expression is not equal to
(9 × 8) × 5
A. 9 × 48
B. 72 × 5
C. 9 × 40
D. 9 × (8 × 5)

3) Which expression is not equal to
(5 × 6) × 9
A. 30 × 9
B. 24 × 9
C. 5 × 54
D. 5 × (6 × 9)

4) Which expression is not equal to
(3 × 10) × 7
A. 3 × 70
B. 3 × (10 × 7)
C. 3 × 80
D. 30 × 7

5) Which expression is not equal to
3 × (6 × 4)
A. 3 × 24
B. 12 × 4
C. 18 × 4
D. (3 × 6) × 4

6) Which expression is not equal to
9 × (3 × 2)
A. (9 × 3) × 2
B. 9 × 3
C. 27 × 2
D. 9 × 6

7) Which expression is not equal to
10 × (7 × 9)
A. (10 × 7) × 9
B. 70 × 9
C. 10 × 63
D. 77 × 9

8) Which expression is not equal to
(6 × 2) × 9
A. 12 × 9
B. 6 × 18
C. 6 + (2 × 9)
D. 6 × (2 × 9)

9) Which expression is not equal to
(8 × 3) × 2
A. 8 × 6
B. 27 × 2
C. 8 × (3 × 2)
D. 24 × 2

10) Which expression is not equal to
5 × (4 × 9)
A. (5 + 4) × 9
B. (5 × 4) × 9
C. 5 × 36
D. 20 × 9

11) Which expression is not equal to
(3 × 9) × 7
A. 3 × (9 × 7)
B. 27 × 7
C. 36 × 7
D. 3 × 63

12) Which expression is not equal to
4 × (5 × 6)
A. 20 × 6
B. (4 × 5) × 6
C. 15 × 6
D. 4 × 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**

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