Finding Associative Property

Name:

Determine which choice is not an equivalent equation.

1) Which expression is not equal to (3 × 6) × 9
A. 3 × (6 × 9)
B. 12 × 9
C. 18 × 9
D. 3 × 54

2) Which expression is not equal to 6 × (10 × 3)
A. 6 × 20
B. (6 × 10) × 3
C. 60 × 3
D. 6 × 30

3) Which expression is not equal to 5 × (2 × 3)
A. 5 × 6
B. 5 × 8
C. (5 × 2) × 3
D. 10 × 3

4) Which expression is not equal to 6 × (9 × 2)
A. (6 × 9) × 2
B. (6 + 9) × 2
C. 54 × 2
D. 6 × 18

5) Which expression is not equal to (8 × 7) × 10
A. 8 × (7 × 10)
B. 56 × 10
C. 8 × 70
D. 8 × 77

6) Which expression is not equal to (5 × 10) × 4
A. 50 × 4
B. 5 + (10 × 4)
C. 5 × 40
D. 5 × (10 × 4)

7) Which expression is not equal to 2 × (3 × 6)
A. 2 × 18
B. 6 × 6
C. (2 + 3) × 6
D. (2 × 3) × 6

8) Which expression is not equal to 9 × (2 × 10)
A. 18 × 10
B. 9 × 18
C. 9 × 20
D. (9 × 2) × 10

9) Which expression is not equal to (5 × 3) × 7
A. 5 × 21
B. 5 × (3 × 7)
C. 15 × 7
D. 5 + (3 × 7)

10) Which expression is not equal to (3 × 10) × 6
A. 3 × (10 × 6)
B. 20 × 6
C. 3 × 60
D. 30 × 6

11) Which expression is not equal to 10 × (7 × 3)
A. (10 × 7) × 3
B. 10 × 21
C. 70 × 3
D. 63 × 3

12) Which expression is not equal to 10 × (5 × 6)
A. 10 × 30
B. (10 × 5) × 6
C. 50 × 6
D. (10 + 5) × 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								

Finding Associative Property Name: **Answer Key**

Determine which choice is not an equivalent equation.

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A. 5 × 6
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A. (6 × 9) × 2
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A. 8 × (7 × 10)
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C. 8 × 70
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6) Which expression is not equal to (5 × 10) × 4
A. 50 × 4
B. 5 + (10 × 4)
C. 5 × 40
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A. 2 × 18
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A. 18 × 10
B. 9 × 18
C. 9 × 20
D. (9 × 2) × 10

9) Which expression is not equal to (5 × 3) × 7
A. 5 × 21
B. 5 × (3 × 7)
C. 15 × 7
D. 5 + (3 × 7)

10) Which expression is not equal to (3 × 10) × 6
A. 3 × (10 × 6)
B. 20 × 6
C. 3 × 60
D. 30 × 6

11) Which expression is not equal to 10 × (7 × 3)
A. (10 × 7) × 3
B. 10 × 21
C. 70 × 3
D. 63 × 3

12) Which expression is not equal to 10 × (5 × 6)
A. 10 × 30
B. (10 × 5) × 6
C. 50 × 6
D. (10 + 5) × 6

Answers

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

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