

Name _____

Date _____

Disproving the Associative Property Multiple Choice 1

Determine which letter is not an equivalent problem.

1. $(4 \times 2) \times 1$

- A. $4 \times (2 \times 1)$
- B. 8×1
- C. 4×2
- D. $(4 \times 2) \times (4 \times 1)$

2. $(2 \times 4) \times 5$

- A. $2 \times (4 \times 5)$
- B. $2 \times 2 \times 0$
- C. 8×5
- D. $2 \times 4 \times 5$

3. $2 \times (4 \times 3)$

- A. 8×6
- B. $2 \times 4 \times 3$
- C. $(2 \times 4) \times 3$
- D. 2×12

4. $3 \times (2 \times 5)$

- A. $6 \times 1 \times 5$
- B. $(3 \times 2) \times 5$
- C. 3×10
- D. 2×15



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5. $2 \times 3 \times 5$

A. $(2 \times 3) \times 5$

B. $2 \times (3 \times 5)$

C. 6×5

D. $(2 \times 3) \times (2 \times 5)$

6. $(2 \times 2) \times 5$

A. $2 \times (2 \times 5)$

B. 2×10

C. 10×10

D. 4×5

7. $3 \times (2 \times 3)$

A. 18×1

B. $3 \times 2 \times 3$

C. $(3 \times 2) \times 3$

D. 3×6

8. $(2 \times 3) \times 1$

A. $2 \times (3 \times 1)$

B. 6×3

C. 6×1

D. $3 \times (2 \times 1)$

9. $2 \times (3 \times 5)$

A. $2 \times 3 \times 5$

B. 1×30

C. $2 \times 3 \times 2 \times 5$

D. $(2 \times 3) \times 5$



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10. $3 \times 2 \times 5$

A. $(3 \times 2) \times 5$

B. $3 \times (2 \times 5)$

C. 30×5

D. $2 \times 3 \times 5$

11. $9 \times (2 \times 5)$

A. $9 \times 2 \times 5$

B. 2×45

C. 9×10

D. 11×5

12. $3 \times 3 \times 5$

A. $(3 \times 3) \times 5$

B. $3 \times (3 \times 5)$

C. 9×5

D. $(3 \times 3) \times (3 \times 5)$

13. $(1 \times 2) \times 5$

A. $1 \times (2 \times 5)$

B. $1 \times 5 \times 2 \times 5$

C. $1 \times 2 \times 5$

D. $1 \times (2 \times 5)$

14. $1 \times (2 \times 3)$

A. 2×3

B. $1 \times 2 \times 3$

C. $(3 \times 2) \times 3$

D. 1×6



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15. $(5 \times 3) \times 1$

A. $5 \times (3 \times 1)$

B. 15×1

C. 15×3

D. $5 \times 3 \times 1$

