Name _____

Group, Solve, Compare

1. Compute both sides (Addition)

a) (9 + 3) + 2 = _____   9 + (3 + 2) = _____   Do they match? _____

b) (6 + 4) + 8 = _____   6 + (4 + 8) = _____   Do they match? _____

2. Compute both sides (Multiplication)

a) (3 × 2) × 5 = _____   3 × (2 × 5) = _____   Do they match? _____

b) (4 × 6) × 2 = _____   4 × (6 × 2) = _____   Do they match? _____

3. Fill in the missing number

a) (5 + 7) + ___ = 5 + (7 + 2)   Answer: _____

b) (2 × 4) × ___ = 2 × (4 × 3)   Answer: _____

c) (8 + 6) + 9 = 8 + (___ + 9)   Answer: _____

4. Fill in the missing parentheses to show the associative property.

a) 2 + 3 + 5 = _____
b) 4 × 7 × 2 = _____
c) 9 + 1 + 8 = _____

(Students must add parentheses in two different groupings that both work.)

5. Word Problem - Maya has 5 boxes with 3 bags each, and each bag has 2 apples. Show two different ways to group and find the total number of apples.

Way 1: (5 × 3) × 2 = _____   Way 2: 5 × (3 × 2) = _____

Do both ways give the same result? _____

Explain why: _____