Name _____

Change the Groups *(Conceptual Introduction)*

1. Circle the side where the grouping changes.

a) **(2 + 3) + 4 = 2 + (3 + 4)** b) **(6 × 5) × 2 = 6 × (5 × 2)**

What do you notice about both sides?

_____

_____

2. Explain the idea in your own words: The associative property tells us that when we change how numbers are _____, the _____ stays the same.

3. Fill in the blanks to show the property of addition.

(___ + ***)*** **+** ___ **=** ___ **+** ***(*** + ___)

Now write numbers that make it true: Example: (4 + 5) + 6 = 4 + (5 + 6)

4. Compute both sides (Addition)

a) (3 + 7) + 2 = _____ 3 + (7 + 2) = _____

Are the results the same? _____

b) (8 + 4) + 1 = _____ 8 + (4 + 1) = _____

Are the results the same? _____

5. Compute both sides (Multiplication)

a) (2 × 3) × 4 = _____ 2 × (3 × 4) = _____

Are the results the same? _____

b) (5 × 2) × 3 = _____ 5 × (2 × 3) = _____

Are the results the same? _____

6. Fill in the missing number to make the property true.

(4 + 6) + ___ = 4 + (6 + 3) Answer: _____

(3 × 5) × ___ = 3 × (5 × 2) Answer: _____