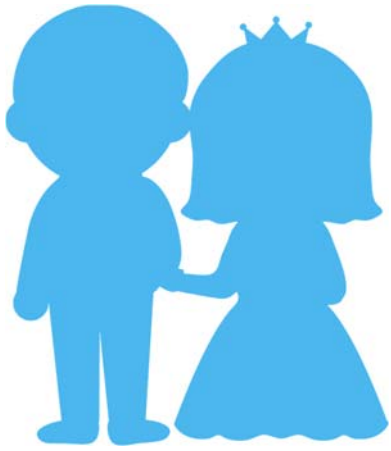
Name _____

# Conceptual Understanding

### Identify the Commutative Pairs (Circle or Color)

**Directions:** Look at each group of expressions. Circle or color the ones that are **commutative pairs** (they show the same numbers in a different order).



1. 3 + 5  5 + 3
2. 8 × 2  2 × 8
3. 9 + 4  9 + 3
4. 6 × 7  7 × 6
5. 5 + 8  8 + 5  5 + 9
6. 4 × 9  9 × 4  9 + 4
7. 7 + 10  10 + 7
8. 3 × 5  5 × 3  5 + 3
9. 12 + 6  6 + 12  12 − 6
10. 9 × 2  2 × 9  9 ÷ 2

### Explain and Apply Understanding

**Directions:** Answer the questions below in complete sentences.

11. Explain in your own words why 7 × 4 = 4 × 7.

_____

_____

12. Is subtraction commutative? (For example, is 9 − 4 = 4 − 9?)

Circle one: **Yes / No** Explain your answer: _____

13. Is division commutative? (For example, is 12 ÷ 3 = 3 ÷ 12?)

Circle one: **Yes / No** Explain your answer: _____

14. Which operations *are* commutative?

Circle all that apply: **Addition** **Multiplication** **Subtraction** **Division**