

## Conceptual Understanding Answer Key

### Identify the Commutative Pairs

1.  $3 + 5$  and  $5 + 3 \rightarrow$  Circle both.
2.  $8 \times 2$  and  $2 \times 8 \rightarrow$  Circle both.
3.  $9 + 4$  and  $9 + 3 \rightarrow$  Not a commutative pair (numbers don't match).
4.  $6 \times 7$  and  $7 \times 6 \rightarrow$  Circle both.
5.  $5 + 8$  and  $8 + 5 \rightarrow$  Circle both (don't circle  $5 + 9$ ).
6.  $4 \times 9$  and  $9 \times 4 \rightarrow$  Circle both (not  $9 + 4$ ).
7.  $7 + 10$  and  $10 + 7 \rightarrow$  Circle both.
8.  $3 \times 5$  and  $5 \times 3 \rightarrow$  Circle both (not  $5 + 3$ ).
9.  $12 + 6$  and  $6 + 12 \rightarrow$  Circle both (not  $12 - 6$ ).
10.  $9 \times 2$  and  $2 \times 9 \rightarrow$  Circle both (not  $9 \div 2$ ).

### Explain and Apply Understanding

11.  $7 \times 4 = 4 \times 7$  because in multiplication, the order of factors can change and the product stays the same.

12. **Subtraction is not commutative.**

Example:  $9 - 4 \neq 4 - 9$ , because the order changes the answer.

13. **Division is not commutative.**

Example:  $12 \div 3 \neq 3 \div 12$ , because switching the order gives a different quotient.

14. The operations that *are* commutative: **Addition and Multiplication.**