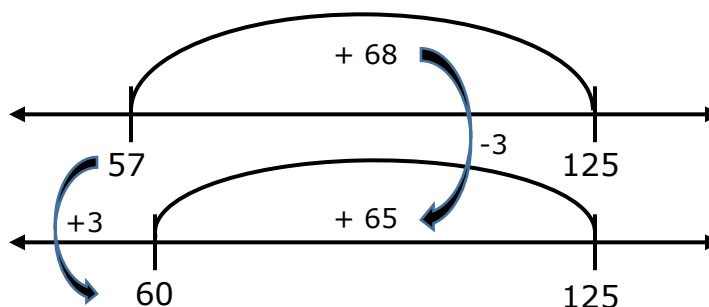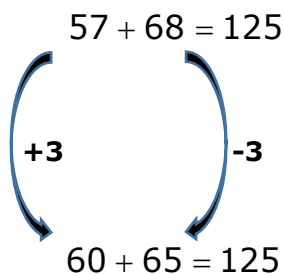## Compensation with Addition

A strategy for adding is to use **compensation** to make an equivalent addition problem. In the example, compensation is used by adding 3 to 57 and subtracting 3 from 68.

$$57 + 68 = 125$$

+3   **-3**

$$60 + 65 = 125$$

+ 68

57   -3   125

+3   + 65

60   125

In the example, the first addend is increased by 3. The addend's location moves 3 units to the right on the number line. Then the second addend is decreased by 3 to compensate (make up) for the increase in the first addend.

The amount added to one addend must be the same amount subtracted from the other addend to keep the addition problems equivalent.

Use compensation to make an equivalent expression. Find the sum of the two numbers.

1 $77 + 44$ **2** $38 + 21$

3 $86 + 39$ **4** $55 + 92$