

Integer Subtraction

① Integer Tiles

Start with the first number and only add neutral pairs.

$$-5 - (-3) \quad \text{---} \text{---} \text{---} \quad -5 - (-3) = -2$$

$$4 - 7 \quad \text{+++++} \text{---} \text{---} \quad 4 - 7 = -3$$

$$3 - (-5) \quad \text{+++} \text{---} \text{---} \text{---} \text{---} \quad 3 - (-5) = 8$$

② Number Line

Any number — a positive → move to the left

Any number — a negative → move to the right

$$6 - 4 \quad \leftarrow \begin{array}{c} | \\ 0 \end{array} \begin{array}{c} | \\ 2 \end{array} \begin{array}{c} | \\ 4 \end{array} \begin{array}{c} | \\ 6 \end{array} \rightarrow \quad 6 - 4 = 2$$

$$3 - (-7) \quad \leftarrow \begin{array}{c} | \\ 0 \end{array} \begin{array}{c} | \\ 2 \end{array} \begin{array}{c} | \\ 4 \end{array} \begin{array}{c} | \\ 6 \end{array} \begin{array}{c} | \\ 8 \end{array} \begin{array}{c} | \\ 10 \end{array} \begin{array}{c} | \\ 12 \end{array} \rightarrow \quad 3 - (-7) = 10$$

③ Subtracting is the same as adding the opposite number.

$$5 - 7 = 5 + (-7) = -2$$

$$-9 - 3 = -9 + (-3) = -12$$

$$-2 - (-7) = -2 + 7 = 5$$