

M9

## 1.1 Number Strategies

### I. Strategies for Addition

1. **Add** a certain amount to one number to make it end in zero (or zeros). **Subtract the same amount** from the other number. **Add** the new numbers.

Examples:

$$48 + 25 = 50 + 23 = 73$$

$$121 + 280 = 101 + 300 = 401$$

**Your Turn:**

$$12 + 39 =$$

$$570 + 360 =$$

2. **Decompose** the given numbers by place value. **Add** the decomposed numbers.

Examples:

$$48 + 25 = 40 + 8$$
$$\quad \quad \quad \underline{20 + 5}$$
$$60 + 13 = 73$$

$$121 + 280 = 100 + 20 + 1$$
$$\quad \quad \quad \underline{200 + 80 + 0}$$
$$300 + 100 + 1 = 401$$

**Your Turn:**

$$54 + 17 =$$

$$346 + 423 =$$

## II. Strategy for Subtraction

Keep the first number unchanged. **Decompose the second number** by the place value. **Subtract the decomposed pieces one at the time.**

Examples:

$$73 - 25 = 73 - 20 - 5 = 53 - 5 = \mathbf{48}$$

$$658 - 247 = 658 - 200 - 40 - 7 = 458 - 40 - 7 = 418 - 7 = \mathbf{411}$$

**Your Turn:**

$$84 - 15 =$$

$$392 - 125 =$$

### Problem Solving Strategies Useful for Word Problems