

# Using Mental Math to Add and Subtract

There are different strategies for adding and subtracting with mental math.

## Addition Strategies

With breaking apart you can add numbers in any order.

$$235 + 158 \quad \text{Break apart 158.} \\ 158 = 5 + 153$$

$$235 + 5 = 240 \quad \text{Add one part to make a ten.}$$

$$240 + 153 = 393 \quad \text{Add the other part.}$$

With compensation you can add or subtract to make tens.

$$235 + 158 \quad \text{Add 2 to make a ten.} \\ 158 + 2 = 160$$

$$235 + 160 = 395$$

$$395 - 2 = 393 \quad \text{Subtract 2 from the answer because 2 was added earlier.}$$

## Subtraction Strategies

Using compensation

$$162 - 48 \quad \text{Add 2 to make 50.}$$

$$162 - 50 = 112 \quad 2 + 48 = 50$$

$$112 + 2 = 114 \quad \text{Since you subtracted 2 too many, add 2 to the answer.}$$

Using counting on

$$400 - 185 \quad \text{Add 5 to make 190.} \\ 185 + 5 = 190$$

$$190 + 10 = 200 \quad \text{Make the next 100.}$$

$$200 + 200 = 400 \quad \text{Add 200 to make 400.}$$

$$5 + 10 + 200 = 215 \quad \text{Find the total of what you added.}$$

Add or subtract. Use mental math.

1.  $67 + 31 =$  \_\_\_\_\_

2.  $86 - 14 =$  \_\_\_\_\_

3.  $29 + 43 =$  \_\_\_\_\_

4.  $206 - 78 =$  \_\_\_\_\_

5. **Reasoning** How can you write  $72 + (8 + 19)$  to make it easier to add? \_\_\_\_\_

○	Marble Collection	
	red	425
	blue	375
	green	129
	yellow	99

Use mental math to solve.

6. How many more blue marbles are there than yellow marbles? \_\_\_\_\_

7. What is the number of red and green marbles? \_\_\_\_\_