

Directions: Use the activities below to enable students to think about addition and subtraction in challenging ways.

Ideas taken from:

Developing Number Sense in the Middle Grades, NCTM
Number Sense in the Middle Grades, Marilyn Burns

Switch Two

Switch two symbols to make this correct.

	2	5
	4	1
+	3	6
	8	4

+		

Create your own puzzle. Exchange with another group.

Replacement Puzzles

Arrange the numerals in the squares, using each one exactly once to create a correct statement.

1)

+			

9 0

6 7 2

6

3 1

2)

	+		<		+	
	-		>		+	

1 6

8 3 2 4

5 7

3) Create your own puzzle. Exchange with another group.

Find the Missing Numbers, Addition and Subtraction

The problems below have been partially erased.

1)

- Fill in possible sets of missing digits.
- How many possible answers are there? What are they?

$$\begin{array}{r} 6 \square \\ + \square 8 \\ \hline 1 \square 5 \end{array}$$

- How do you know you found all the possible answers?

2)

- Fill in possible sets of missing digits.
- How many possible answers are there? What are they?

$$\begin{array}{r} 8 \square \\ - \square 7 \\ \hline 5 \square \end{array}$$

- How do you know you found all the possible answers?

3) Create your own puzzle. Exchange with another groups