## DRAW for Basic Math

To help me calculate answers to problems with whole numbers or fractions (addition, subtraction, multiplication, division).

Discover the sign.

- Scan the problem and find the operation $\operatorname{sign}(+,-, \times, \div)$
- Circle, and say name of computation sign.
- Say what the sign means.

Read the problem.

- Read the whole problem.
- Say the problem aloud as you read.

Answer, or draw tallies and/or circles and check your answer. (see draw examples for each operation).

- Answer the problem if you know how to solve it.
- If you don't know how to solve the problem then draw pictures to solve it.
- For example:


## Addition

## Whole Numbers

11

Fractions


## Subtraction



## Fractions

2/3
$-3$
$-1 / 3$
3


## Multiplication

$4 \times 5=$ $\qquad$ - "four groups of five equals..."

1. Draw circles for the number of groups.


2 Draw tallies or dots to represent how many are in each group.

3. Add the tallies in all circles and write the total.
$4 \times 5=20$ - "four groups of five equals twenty"

## Division

$24 \div 4=$ $\qquad$

1. Draw tallies or dots to represent dividend (" 24 ").

2. Circles tallies dots by the value of the divisor ("4").

3. Count number of circles (this is your answer - the quotient (" 6 ").

$$
24 \div 4=6
$$

$\mathbf{W}$ rite the answer.

- Write down the answer to the problem

This strategy is based on a strategy presented in Mercer, C., \& Mercer, A. (1998). Teaching students with learning disabilities. (5th ed). Columbus, O: Merrill. Learning Toolbox. Steppingstone Technology Grant. James Madison University, MSC 1903, Harrisonburg, VA 22807.

