# Math Strategies \& Tools 

Fingers


Simple- Counting with the first finger (ex. 1, 2, 3, 4, 5)

Complex-I know that I have five fingers, so one more makes six.

## Counters



## Pictures

$$
4+5=9
$$



Simple- Drawing of the actual item
Complex- Using dot patterns with organizations of ten

## Tally Marks

$5+4=9 \quad 10+9=19$
$\mathbb{M}$ IIII

Simple- Adding two numbers that are represented by tally marks.

Complex- Building from the greater number

## Number Line



Simple- Adding by ones
Complex- Adding ten and then adding by ones

100 Chart


|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 1213 |  |  |  |  | 18 |  |  |
| 21 | 2223 |  | 425 |  |  |  |  |  |
| 3 | 323 |  | 435 |  |  | 73 |  |  |
| 41 | 424 |  | 445 |  | 47 | 48 |  | 49 |
| 51 | 525 |  | 455 |  | 67 | 58 |  | 59 |
| 61 | 626 |  | 465 | 66 | 67 | 68 |  | 69 |
| 71 | 7273 |  | 475 | 76 | 77 | 78 |  | 7980 |
| 81 | 828 |  | 485 |  | 87 |  |  |  |
|  |  |  | 495 |  | 97 |  |  | 99\%00 |

Simple- Adding by ones
Complex- Adding ten and then adding by ones

## Counting Forward



## Counting Backwards

Doubles

$4+4=8$
$20+20=40$

Simple- Adding by ones
Complex- Adding tens and then adding by ones

Near Doubles (Doubles plus one or plus two)
$7+8=15$
(I know that 7 doubled is 14 so one more totals 15 )
$20+22=42$

Simple- Adding single digit doubles
Complex- Adding double digit doubles
Simple- Subtracting the ones
Complex-Subtracting the ones and then the tens

## Number Strings

$\underbrace{+3+7=17}_{14+3} \quad$| Complex- Creating number strings near ten and combining values |
| :--- |

Make Ten
$7+3+7=17 \quad$ Simple- Find combinations of ten and add digits Complex- Find more than one combination of ten and add digits.

## Decompose Numbers



Simple- decomposes single digit numbers
Complex- Decomposes double digit numbers and forms combinations of ten
$10+2=12$

Simple- Double one digit numbers plus one or two Complex- Double a two digit number plus one or two Complex- Creating number strings near ten and combining values

$$
\begin{array}{rrll}
\text { ation } & & & \text { S. Skiba } \\
+36 & 50 & \text { Simple- Using single digit numbers } & \text { Complex- Using two digit numbers to get to nearest ten }
\end{array}
$$

## Regrouping



Simple- Changing ones to a stick of ten
Complex- Regrouping with high knowledge of base ten system and place value.
$\stackrel{1}{5}$
+28
+53

Change 10 ones

## Calculators

Simple- Use appropriate grade level one step functions Complex- Complete multiple step problems

