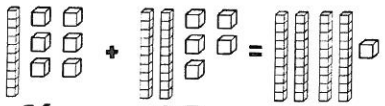
TWO-DIGIT ADDITION STRATEGIES

We are learning how to add two-digit numbers. To encourage students to develop a better understanding of addition and number sense, we will be introducing several strategies to add. These may be very different from the traditional algorithm, which is how many of us learned in school. Hopefully, this little "cheat sheet" will help you support your child at home!

BASE TEN BLOCKS

Base Ten blocks are just blocks used to represent the place value system. Students can draw the blocks to help them count and understand when to regroup, or create a new ten.



16 + 25 = 41

HUNDREDS CHART

Students can add by skip counting by 10's and 1's on the hundreds chart. Using this problem, students would skip count 10 two times and then over one only 1 time. **37 + 21 = 58**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

BREAK APART/ EXPANDED FORM

Using this strategy, students will use their understanding of expanded form to add the value of each digit. First, students will break down the numbers into expanded form. Then, students will add the tens and then ones.

45 + 23 = 68

45= 40 + 5
+ 23= 20 + 3
68= 60 + 8

PARTIAL SUMS

Partial sums is a great strategy to encourage mental math skills. It also works very well when solving problems when regrouping (creating a new ten). Similar to the break apart/ expanded form, students will add each place on the place value system. It will be written vertically to help easily add each column.

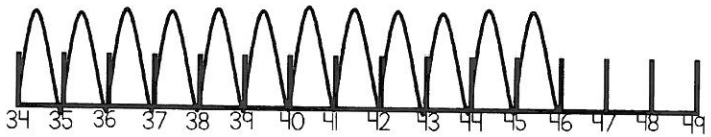
38
+ 27
15 ← ONES
+ 50 ← TENS
65 ← SUM

TWO-DIGIT ADDITION STRATEGIES (CONTINUED)

CLOSED NUMBER LINE

A closed number line is a number line that is already labeled with numbers. Students can add by counting on.

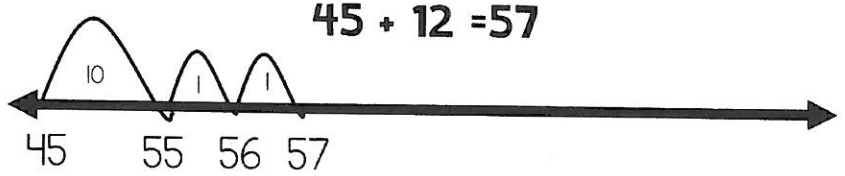
34 + 12 =46



OPEN NUMBER LINE

An open number line is a blank number line. Students use their knowledge of tens and ones to label and skip count on the line.

45 + 12 =57



Type a personalized note to parents in this box or sign your name. If you do not want to add a note, simply delete this text box!