Solving an Addition Problem

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Here is another problem.
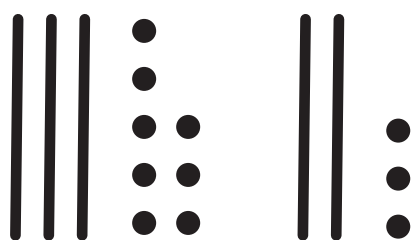
$$38 + 23 = \underline{\hspace{1cm}}$$

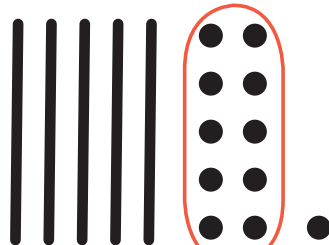$$\begin{array}{r} 38 \\ + 23 \\ \hline \end{array}$$

There are many ways to solve this problem.

These children broke both numbers into tens and ones. They added the tens together and the ones together, and then added those totals.

Juan used stickers.
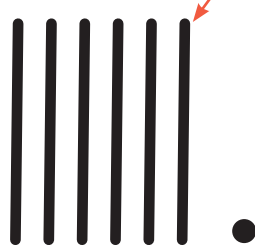
Monisha's Solution

$$38 + 23 = \underline{\hspace{1cm}}$$
$$30 + 20 = 50$$
$$8 + 3 = 11$$
$$50 + 11 = 61$$

$$38 \quad + \quad 23$$

$$30 + 20 = 50$$
$$8 + 3 = 11$$

$$50 \quad + \quad 11$$

$$50 + 10 = 60$$
$$60 + 1 = 61$$

$$60 \quad + 1 \quad = \quad 61$$

Travis' Solution

$$\begin{array}{r} 38 \\ + 23 \\ \hline 50 \\ + 11 \\ \hline 61 \end{array}$$

If there are 3 tens in 38 and 2 tens in 23, why is the answer in the 60s instead of in the 50s?

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These children keep one number whole and add the other number on in parts.

Amaya thought about stickers.

$38 + 23 =$ <u>61</u>

☐ 59
☐ 60
☐ 61

$38 +$

48 58

Luis used the 100 chart.

$38 + 23 =$ ___

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

+20
+ 3

Jacy started at 38 and added on 23 on the number line.
$38 + 23 =$ ___

+2   +20   +1

38   40   50   60 61

Leo and Nate broke 23 into 20 and 3 and then added it onto 38.

Leo recorded like this:

$38 + 23 =$ <u>61</u>
$38 + 20 = 58$
$58 + 3 = 61$

Nate recorded like this:

$38 + 23 =$ ___

$$\begin{array}{r} 38 \\ + 20 \\ \hline 58 \\ + 3 \\ \hline 61 \end{array}$$

**Esteban solved this problem by adding 40 + 21.
What did he do? Why does that work?**