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# Counting On

For adding and subtracting numbers close to each other. This strategy works well with a number line or square.

You can even do it mentally!

$$34 + 15 =$$

	+10	+5
30 31 32 33 <b>34</b> 35 36 3	37 38 39 40 41	1 42 43 44 45 46 47 48 49 50

1	2	3	4	5	6	7	8	٩	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	30	<del>}</del>
41	<del>42</del>	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



# Counting Back

For subtracting smaller numbers.
This strategy works well with a number line or square.
You can even do it mentally!

$$87 - 12 =$$

-2	-10	
70 71 72 73 74 <b>75</b> 76 77 78	8 79 80 81 82 83	84 85 86 <mark>87</mark> 88 89 90
<b>—</b>		

1	2	3	4	5	6	7	8	٩	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 <b>-</b>	-77	78	<del>7</del> 0	80
81	82	83	84	85	86	<del>-</del> 87	88	89	90
91	92	93	94	95	96	97	98	99	100



## Near Doubles

For adding similar numbers.

Double one of the numbers and adjust by adding or subtracting the difference.

I know double 25 is 50

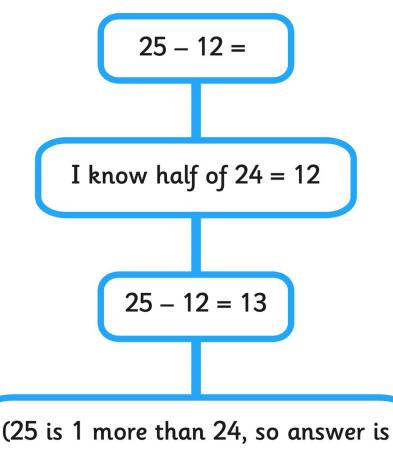
$$26 + 25 =$$

1 more than double 25 = 51



## Near Halves

For subtracting when the number is a near half.



1 more than 12 = 13)



# Using Pairs to Ten

For adding where numbers add to 10, or ends with a 0.

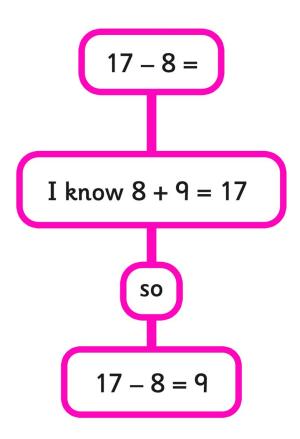
$$23 + 67 =$$
I know 3 + 7 = 10
$$23 + 67 = 20 + 60 + 10 = 90$$

$$160 - 37 =$$
I know 10 - 7 = 3



### Part, Part, Whole

Use known facts to add and subtract.



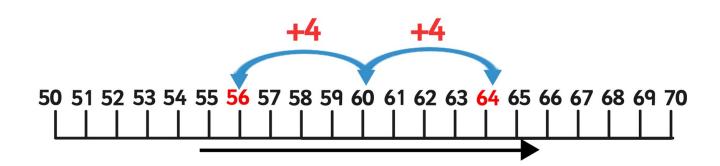


# Make Ten and Then Some

Add or subtract past tens.

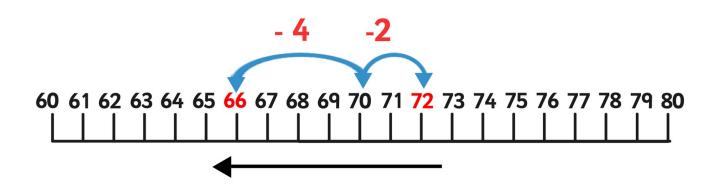
$$56 + 8 =$$

$$56 + 4 = 60$$
 so  $56 + 4 + 4 = 64$ 



$$72 - 6 =$$

$$72 - 2 = 70$$
 so  $72 - 2 - 4 = 66$ 





# Front-end Adding

For addition.

$$69 + 37 = 90$$

$$60 + 30 = 90$$

$$9 + 7 = 16$$

$$+$$

$$90 + 16 = 106$$



## Compensation for 8 or 9

For adding or subtracting where a number has 8 or 9 in units.

Add 9 - add 10 and subtract 1 Subtract 8 - subtract 10 and add 2

Use strategy for:

Add 39 - add 40 and subtract 1 Subtract 79 - subtract 80 and add 1

$$34 + 9 =$$
 $34 + 10 = 44$ 
 $44 - 1 = 43$ 

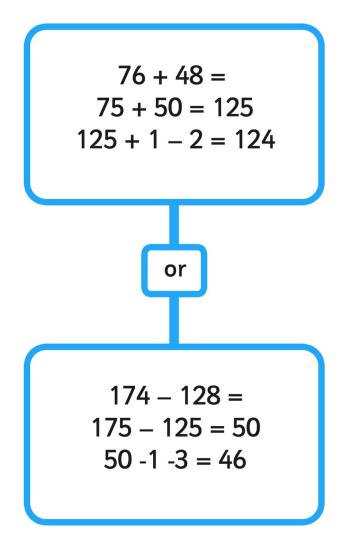
$$83 - 38 =$$
 $83 - 40 = 43$ 
 $43 + 2 = 45$ 



## Use Multiples of 25

For adding or subtracting when numbers are near multiple of 25.

Add or subtract and compensate.





# Common Zeros

For adding and subtracting numbers with the same number of zeros.

$$60 + 130 =$$
 $6 \text{ tens} + 13 \text{ tens} = 19 \text{ tens}$ 
 $60 + 130 = 190$ 

or

1500 - 20015 hundreds - 2 hundreds = 13 hundred 1500 - 200 = 1300



# Trailing Zeros

For multiplying numbers ending in zero.

