$0 \times 3 = 0 = 3 \times 0$
$1 \times 3 = 3 = 3 \times 1$
$2 \times 3 = 6 = 3 \times 2$
$3 \times 3 = 9 = 3 \times 3$
$4 \times 3 = 12 = 3 \times 4$
$5 \times 3 = 15 = 3 \times 5$
$6 \times 3 = 18 = 3 \times 6$
$7 \times 3 = 21 = 3 \times 7$
$8 \times 3 = 24 = 3 \times 8$
$9 \times 3 = 27 = 3 \times 9$
$10 \times 3 = 30 = 3 \times 10$
$11 \times 3 = 33 = 3 \times 11$
$12 \times 3 = 36 = 3 \times 12$

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If I know... then I also know...

The digit sum of multiples of 3 is 3, 6 or 9

An odd number multiplied by 3 gives an odd product.

$0 \times 4 = 0 = 4 \times 0$
$1 \times 4 = 4 = 4 \times 1$
$2 \times 4 = 8 = 4 \times 2$
$3 \times 4 = 12 = 4 \times 3$
$4 \times 4 = 16 = 4 \times 4$
$5 \times 4 = 20 = 4 \times 5$
$6 \times 4 = 24 = 4 \times 6$
$7 \times 4 = 28 = 4 \times 7$
$8 \times 4 = 32 = 4 \times 8$
$9 \times 4 = 36 = 4 \times 9$
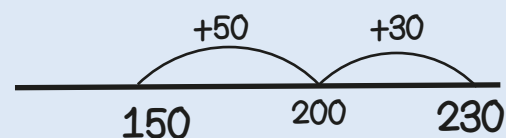$10 \times 4 = 40 = 4 \times 10$
$11 \times 4 = 44 = 4 \times 11$
$12 \times 4 = 48 = 4 \times 12$

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multiple factor product

All multiples of 4 are even numbers.

There is a repeating pattern in the ones column: 0, 4, 8, 2, 6

$0 \times 8 = 0 = 8 \times 0$
$1 \times 8 = 8 = 8 \times 1$
$2 \times 8 = 16 = 8 \times 2$
$3 \times 8 = 24 = 8 \times 3$
$4 \times 8 = 32 = 8 \times 4$
$5 \times 8 = 40 = 8 \times 5$
$6 \times 8 = 48 = 8 \times 6$
$7 \times 8 = 56 = 8 \times 7$
$8 \times 8 = 64 = 8 \times 8$
$9 \times 8 = 72 = 8 \times 9$
$10 \times 8 = 80 = 8 \times 10$
$11 \times 8 = 88 = 8 \times 11$
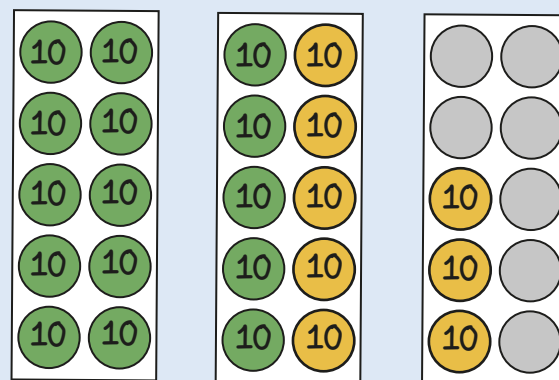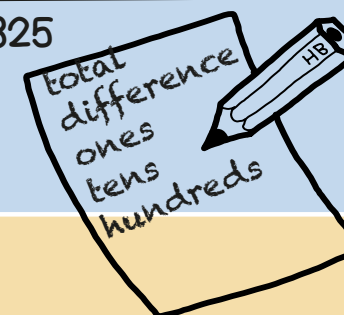$12 \times 8 = 96 = 8 \times 12$

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All multiples of 8 are even numbers.
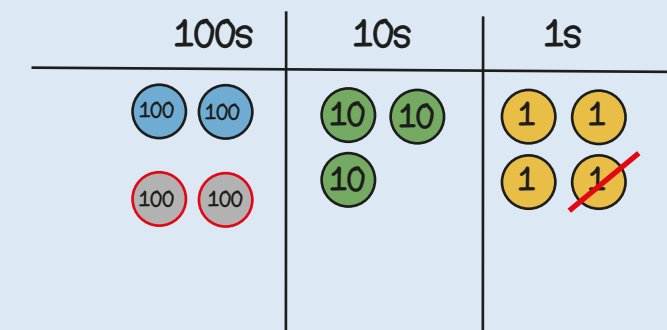
All multiples of 8 are also multiples of 2 and 4

Year 3 Term 2

150 + 80
Bridging boundaries

+50   +30
150   200   230

325 + 200
Add multiples of ten and a hundred

100s   10s   1s

If I know 3 + 2 = 5 then I know 3 hundreds + 2 hundreds = 5 hundreds

+100   +100
325   525

total difference ones tens hundreds
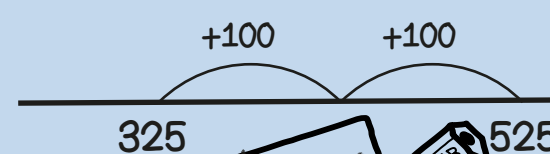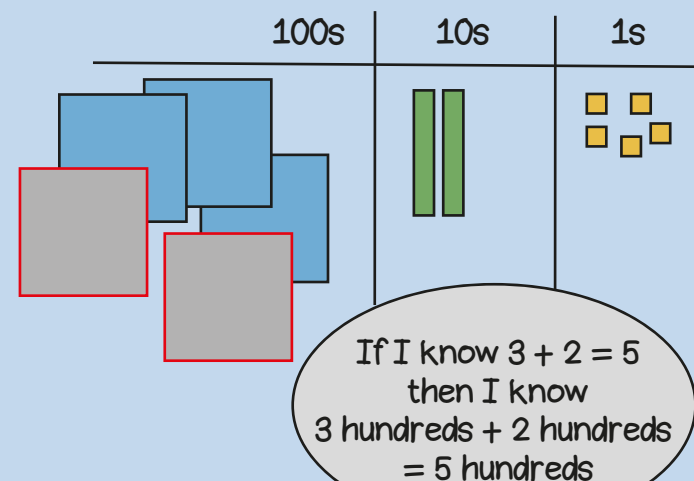
234 + 199
Round then adjust

100s   10s   1s

Add 200 then subtract 1

+200
−1
234   433   434
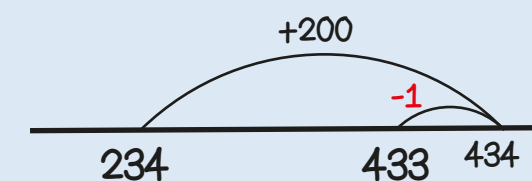
Stop and Look! What do you notice? What's the most efficient way?
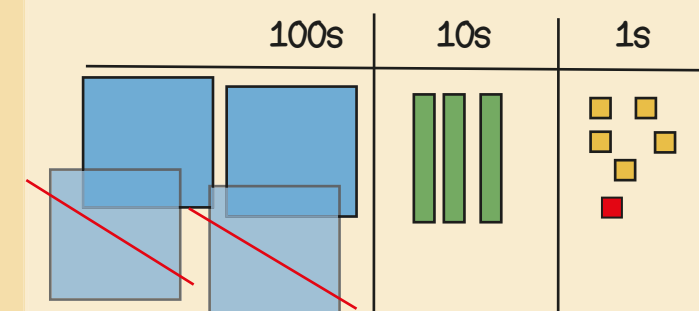
230 − 80
Bridging boundaries by counting back in efficient steps
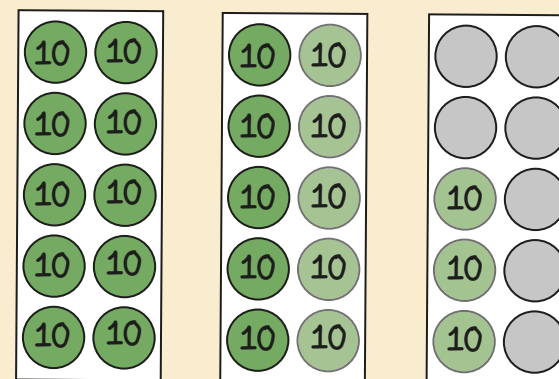
230 − 30 − 50 = 150

− 50   − 30
150   200   230
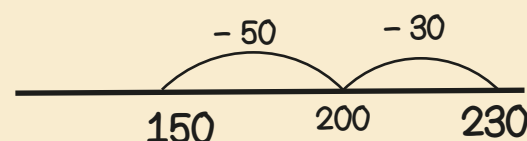
304 − 297
Find the difference between two numbers

304
297   7
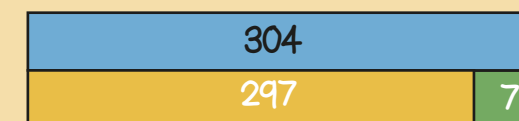
304 is 7 more than 297
297 is 7 less than 304
so the difference between them is 7

+3   +4
297   300   304

435 − 199
Round then adjust

100s   10s   1s

Take away 200 then add 1

− 200
+1
235 436   435

Can Do Maths