

You CanDo all the multiplication facts of 11.

0	x 11	= 0	= 11 x 0
1	x 11	= 11	= 11 x 1
2	x 11	= 22	= 11 x 2
3	x 11	= 33	= 11 x 3
4	x 11	= 44	= 11 x 4
5	x 11	= 55	= 11 x 5
6	x 11	= 66	= 11 x 6
7	x 11	= 77	= 11 x 7
8	x 11	= 88	= 11 x 8
9	x 11	= 99	= 11 x 9
10	x 11	= 110	= 11 x 10
11	x 11	= 121	= 11 x 11
12	x 11	= 132	= 11 x 12

Can Do Tables

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

If the digits are the same then a 2-digit number is divisible by 11

An odd number multiplied by 11 gives an odd product.

You CanDo all the multiplication facts of 12.

0	x 12	= 0	= 12 x 0
1	x 12	= 12	= 12 x 1
2	x 12	= 24	= 12 x 2
3	x 12	= 36	= 12 x 3
4	x 12	= 48	= 12 x 4
5	x 12	= 60	= 12 x 5
6	x 12	= 72	= 12 x 6
7	x 12	= 84	= 12 x 7
8	x 12	= 96	= 12 x 8
9	x 12	= 108	= 12 x 9
10	x 12	= 120	= 12 x 10
11	x 12	= 132	= 12 x 11
12	x 12	= 144	= 12 x 12

Can Do Tables

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A number is divisible by 12 if it is divisible by 3 and 4

All multiples of 12 are even numbers.

12 6 72

12 x 6 = 72
72 = 12 x 6
72 ÷ 12 = 6
6 = 72 ÷ 12

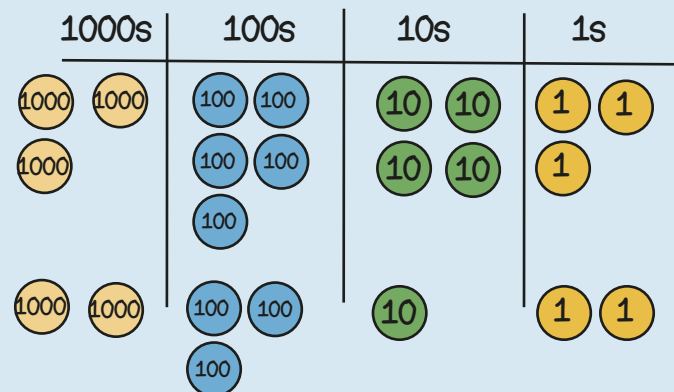
6 x 12 = 72
72 = 6 x 12
72 ÷ 6 = 12
12 = 72 ÷ 6

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

$$5 \times 2 \times 6 = 60 = 6 \times 2 \times 5$$

$5 \times 2 \times 6$	$5 \times 2 \times 6$	$5 \times 2 \times 6$
$= 10 \times 6$	$= 5 \times 12$	$= 2 \times 30$
$= 60$	$= 60$	$= 60$

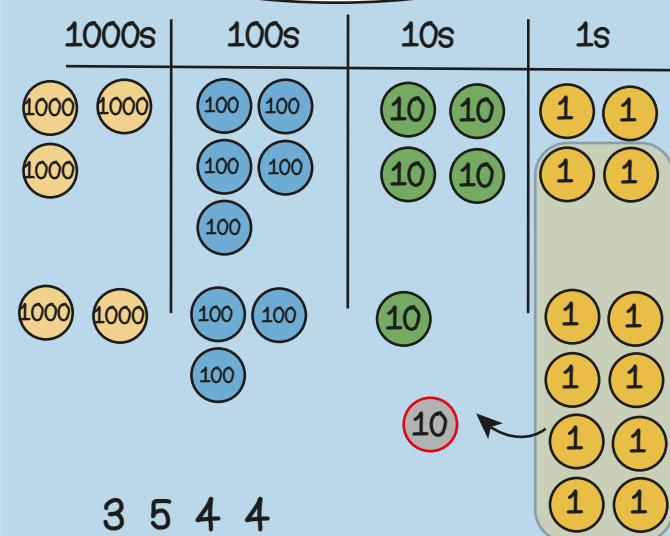
3543 + 2312
No regrouping



$$\begin{array}{r} 3543 \\ + 2312 \\ \hline 5855 \end{array}$$

3 + 2 = 5
4 + 1 = 5
5 + 3 = 8
3 + 2 = 5

3544 + 2318
Regrouping the ones

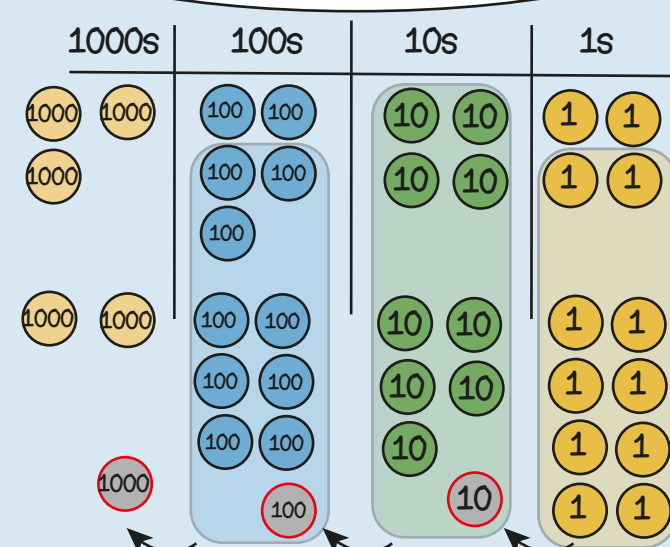


$$\begin{array}{r} 3544 \\ + 2318 \\ \hline 5862 \end{array}$$

Regroup the 12 ones into 1 ten and 2 ones



3544 + 2658
Regrouping in multiple columns

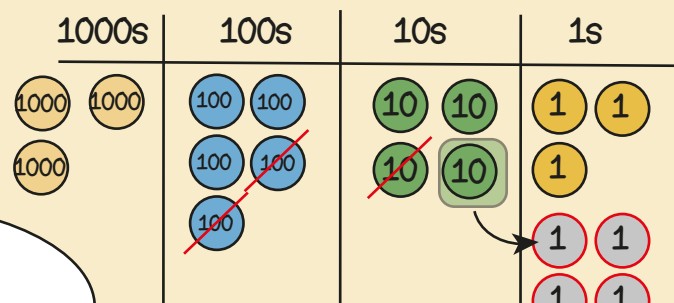


$$\begin{array}{r} 3544 \\ + 2658 \\ \hline 6202 \end{array}$$

If the column sum is equal to ten or more, we must regroup.

Year 4 Term 3

3543 - 1216
Exchanging tens



$$\begin{array}{r} 3543 \\ - 1216 \\ \hline 2327 \end{array}$$

If the ones digit in the minuend is less than the ones digit in the subtrahend, I need to exchange 1 ten for 10 ones.

3343 - 1756
Exchanging in multiple columns



$$\begin{array}{r} 3343 \\ - 1756 \\ \hline 1587 \end{array}$$

Stop and Look!
What do you notice?
Where will we regroup or exchange?

3543 - 835
Different numbers of digits

$$\begin{array}{r} 3543 \\ - 835 \\ \hline 2708 \end{array}$$

Line up the ones with the ones, the tens with the tens.