

You Can Do 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

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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 Can Do 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

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multiple factor product

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

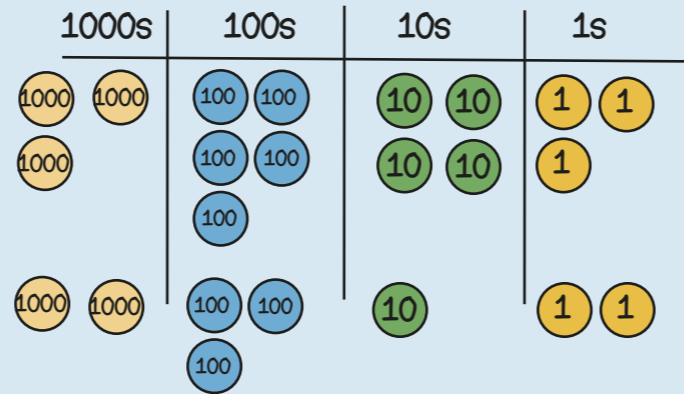
6 x 12 = 72  
 72 = 6 x 12  
 72 ÷ 6 = 12  
 12 = 72 ÷ 6

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

5 x 2 x 6 = 60 = 6 x 2 x 5

5 x 2 x 6 = 10 x 6 = 60  
 5 x 2 x 6 = 5 x 12 = 60  
 5 x 2 x 6 = 2 x 30 = 60

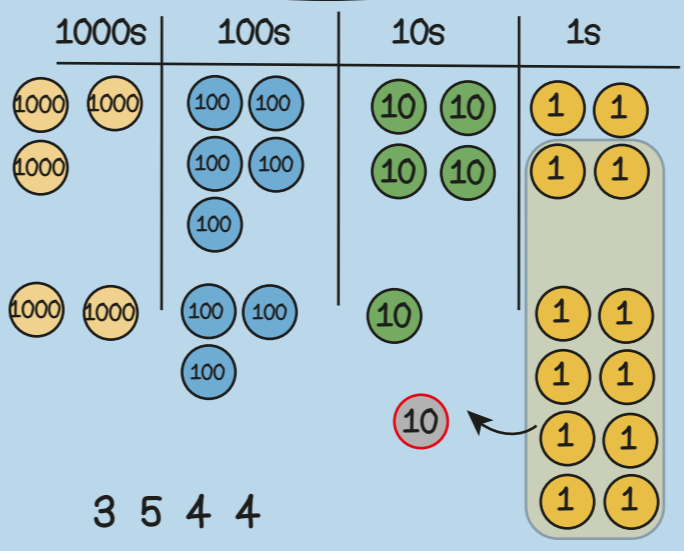
3543 + 2312  
No regrouping



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

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

3544 + 2318  
Regrouping the ones

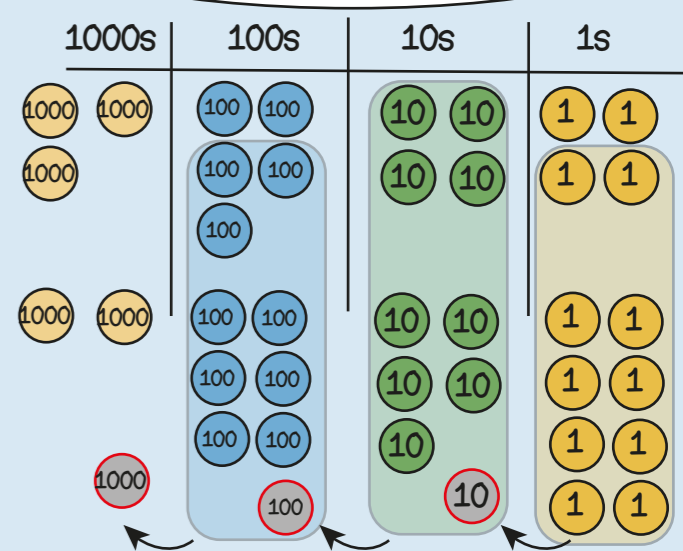


$$\begin{array}{r} 3544 \\ + 2318 \\ \hline 5862 \end{array}$$

Regroup the 12 ones into 1 ten and 2 ones

regroup exchange ones tens hundreds thousands

3544 + 2658  
Regrouping in multiple columns

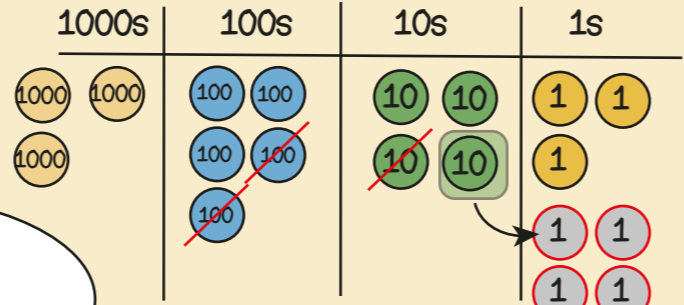


$$\begin{array}{r} 3544 \\ + 2658 \\ \hline 6202 \end{array}$$

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

Year 4 Term 3

3543 - 1216  
Exchanging tens



$$\begin{array}{r} 35\overset{3}{4}3 \\ - 1216 \\ \hline 2327 \end{array}$$

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



$$\begin{array}{r} 3\overset{2}{3}\overset{12}{4}\overset{13}{3} \\ - 1756 \\ \hline 1587 \end{array}$$

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

3543 - 835  
Different numbers of digits

$$\begin{array}{r} 3\overset{2}{5}\overset{1}{4}\overset{3}{3} \\ - 835 \\ \hline 2508 \end{array}$$

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