

Year 2

# Maths Methods



# Workshop

# Year 2

## Addition and Subtraction

### Using a blank number line to add two digit numbers

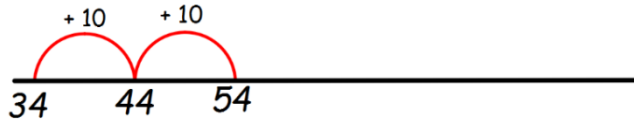
$34 + 22 =$



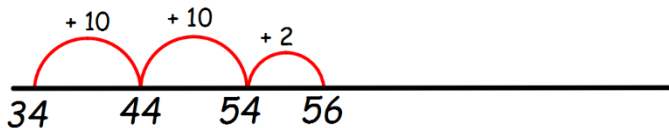
34

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$34 + 22 =$



$34 + 22 = 56$



1. Draw a blank number line. The **biggest** number goes at the beginning of the number line. Partition the remaining number into tens and ones.

2. Add the tens.

3. Add the ones.

## Using an addition grid to add two digit numbers

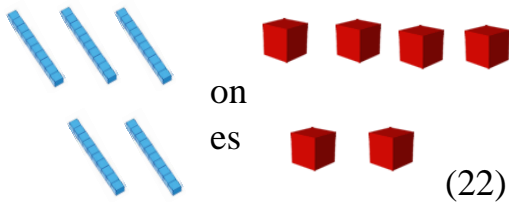
$$34 + 22 =$$

10s	1s

1. Draw 3 tens and 4 ones (34)



2. Now draw 2 tens and 2



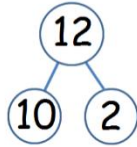
10s	1s

10s	1s

3. Collect all the tens and all the ones in the bottom row. Count them altogether, 5 tens and 6 ones is 56.

## Using a blank number line to subtract

$$24 - 12 = 12$$

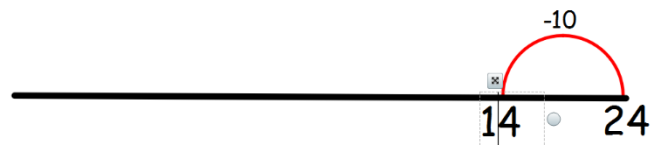
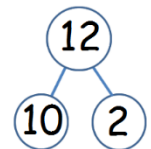


1. Draw a blank number line. Put the biggest number at the end of the line. Partition the remaining number.

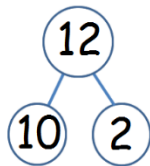


2. Take away the tens. Remember we are going backwards. The number gets smaller.

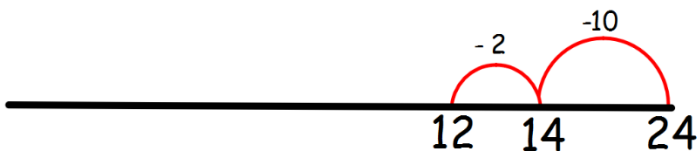
$$24 - 12 =$$



$$24 - 12 = 12$$

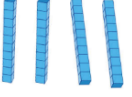



3. Take away the ones. Your answer should be smaller than the one you started with.

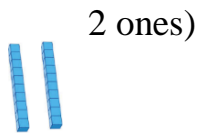




## Using a subtraction grid

$$42 - 12 =$$

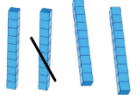

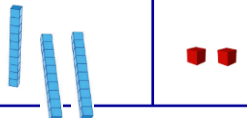

10s	1s
	


1. Draw 2 tens and 4 ones to make 24 (the biggest number)



10s	1s
	

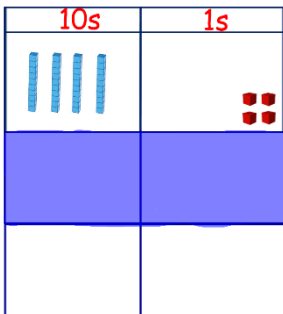
2. Cross out 12 (cross out 1 ten and

10s	1s
	
	

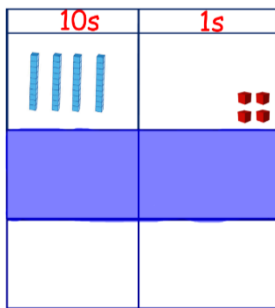
3. Count tens and ones left. There is 3 tens and 2 ones so  
 the answer. Put all remaining 10s and 1s at the bottom.

## Using a subtraction grid with exchanging

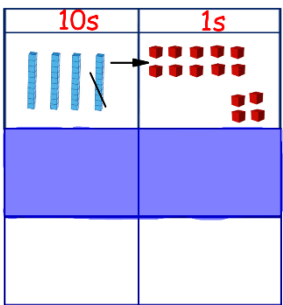
$$44 - 27 =$$



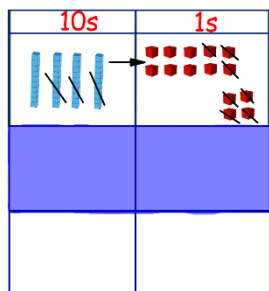
1. Start with the biggest number, so draw 4 tens and 4 ones (44).



2. You need to take away 27. We can take away 2 tens but NOT 7 ones! We have to do something!



3. We need to exchange a ten for tens ones so that the calculation can be answered.



4. Now we can cross out 7 ones and the remaining 2 tens.