

Knowledge Organiser

Year Group	Subject	Topic
2	Maths	Addition and Subtraction

The Big Picture

Children will be working on addition and subtraction for 7 weeks. We have already completed 3 weeks of this topic in Autumn 1. We will be revisiting some of our learning from year 1 to make sure we are secure before moving on to the year 2 curriculum. Children will be working on commutative, inverse, key terminology to recognise whether we need to add or subtract in solving problems. We will also focus on regrouping of 2-digit numbers using various other methods and strategies to help us solve missing number problems.

Enquiry Questions

What is the same and different about number sentences?

How do you know when to add or subtract in a word problem?

How can I use related facts to solve worded problems?

Why is addition commutative and subtraction isn't

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Does it matter what order you add the numbers in?

What do you notice about the positions of the numbers on the hundred squares?

What would happen if you had more than ten ones?

How do you know when to exchange/regroup?

How many do you need to subtract to get to the previous 10?

What do the symbols $>$, $<$ and $=$ mean?

How do you work out a missing number?

Key Vocabulary

Add

Total

Make

Plus

Sum

More

Altogether

Difference

Leave

Subtract

Difference between

Key Vocabulary

Less

Minus

Take away

Mentally, Orally

Column Addition

Column Subtraction

Estimate

Inverse operation

Solve problems

Number facts

Place Value

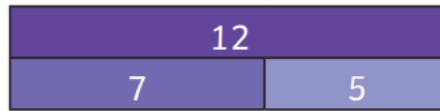
Addition and Subtraction Bonds to 20



$$15 + 5 = 20$$

$$20 - 5 = 15$$

$$20 - 15 = 5$$



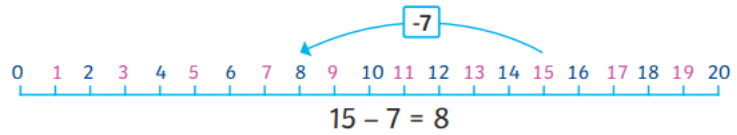
$$7 + 5 = 12$$

$$12 - 5 = 7$$

$$12 - 7 = 5$$

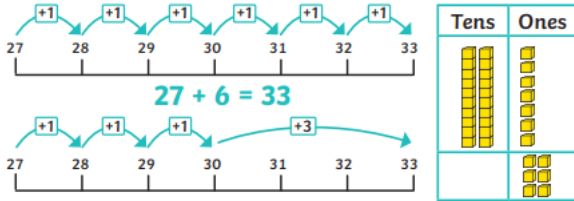


$$4 + 3 = 7$$

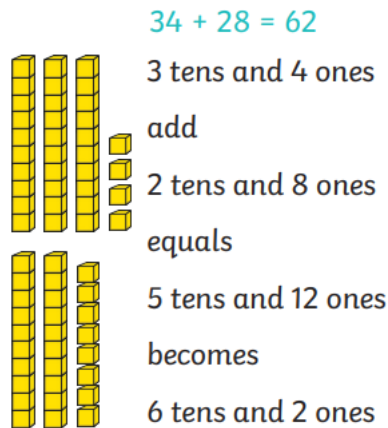


Methods

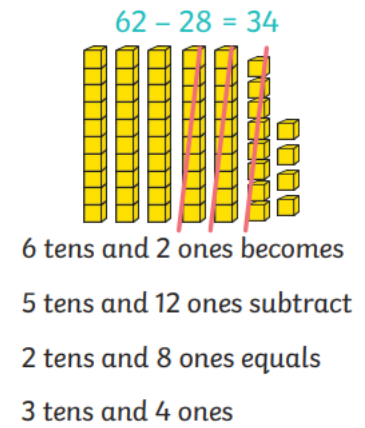
Add 2-digit and 1-digit



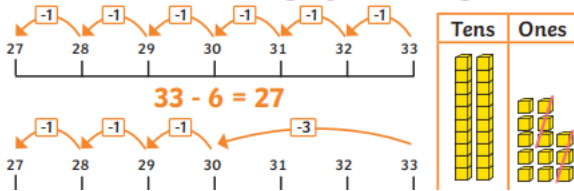
Add 2-digit numbers



Subtract 2-digit numbers

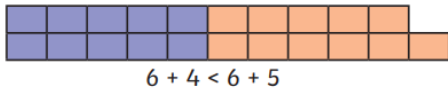


Subtract 1-digit from 2-digit

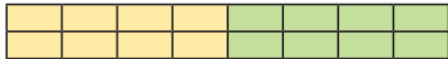


Mental Methods

Compare Number Sentences



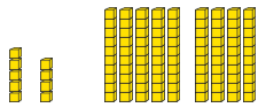
$$6 + 4 < 6 + 5$$



$$5 + 3 = 6 + 2$$

Related facts

$$5 + 4 = 9 \text{ so } 50 + 40 = 90$$

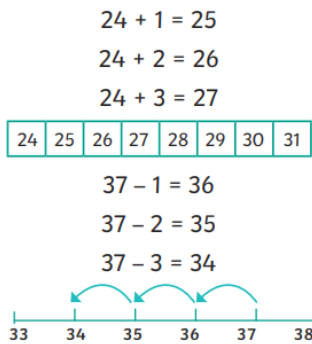


Add 3 1-digit numbers

$$9 + 5 + 3 = 17$$

More or Less/ Add and Subtract 1s and 10s

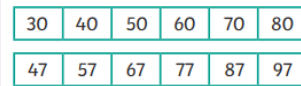
Add and subtract 1s



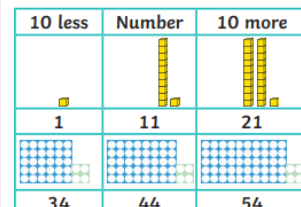
There are 7 flowers in a vase. One more is added. Now there are 8 flowers.



10 More or Less



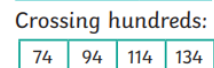
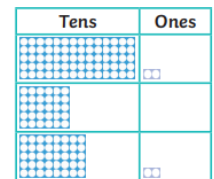
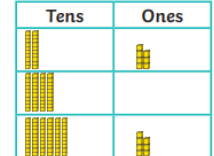
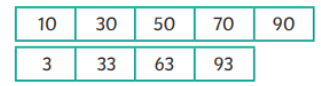
The ones digit stays the same.



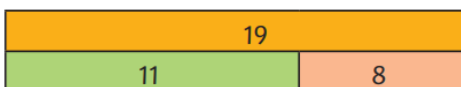
Take care when crossing hundreds:



Add and Subtract 10s



Check Calculations



19 - 8 = 11 can be checked using 8 + 11 = 19

32 + 5 = 82 x Spot that 5 tens have been added not 5 ones

28 - 26 = 12 x Spot that 28 and 26 are very close together, so difference won't be 12.

37 - 4 = 41 x Spot that if subtracting 4 the answer will be smaller.

68 - 40 = 64 x Spot that 4 ones have been subtracted and not 4 tens.