



Key Vocabulary

Addition and Subtraction bonds to 20

Altogether

Total

Make

Plus

Sum

More

Exchange

Regroup

Commutative

Take away

Minus

Less

Difference

Difference between

Mentally, orally

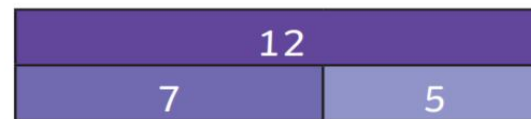
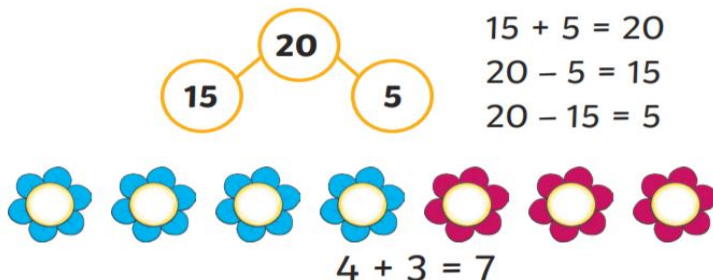
Column addition

Column subtraction

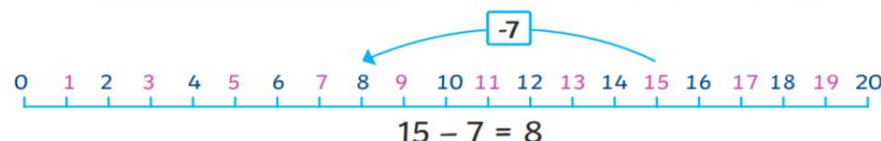
Estimate

Inverse operation

Number facts

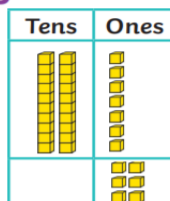
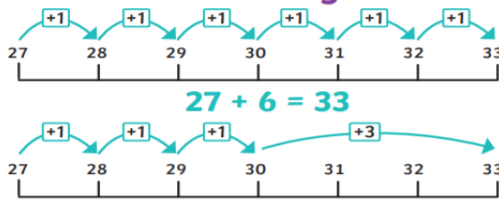


7 + 5 = 12
12 - 5 = 7
12 - 7 = 5

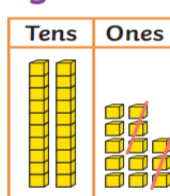
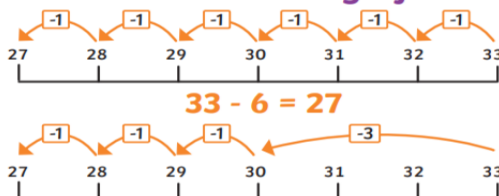


Methods

Add 2-digit and 1-digit

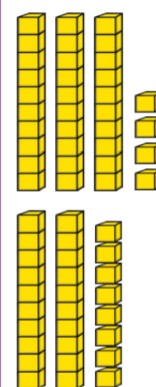


Subtract 1-digit from 2 digit



Add 2-digit numbers

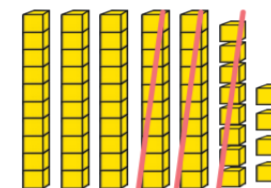
34 + 28 = 62



3 tens and 4 ones
add
2 tens and 8 ones
equals
5 tens and 12 ones
becomes
6 tens and 2 ones

Subtract 2-digit numbers

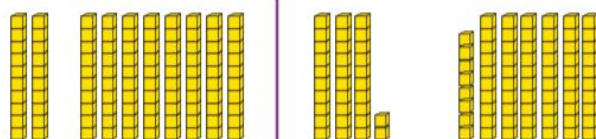
62 - 28 = 34



6 tens and 2 ones becomes
5 tens and 12 ones subtract
2 tens and 8 ones equals
3 tens and 4 ones

Addition and Subtraction bonds to 100

2 + 8 = 10
so 20 + 80 = 100



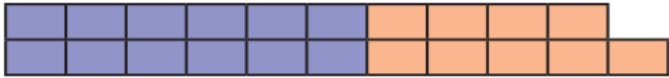
32 + 68 = 100

3 tens and 2 ones + 6 tens and 8 ones
= 9 tens and 10 ones = 10 tens = one hundred

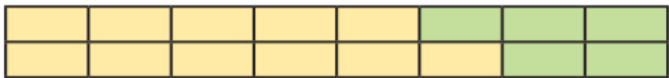


Mental Methods

Compare Number Sentences



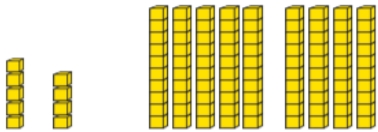
$$6 + 4 < 6 + 5$$



$$5 + 3 = 6 + 2$$

Related facts

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



Add 3 1-digit numbers



$$9 + 5 + 3 = 17$$

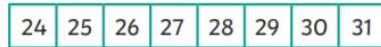
More or Less. Add and Subtract 1s and 10s

Add and subtract 1s

$$24 + 1 = 25$$

$$24 + 2 = 26$$

$$24 + 3 = 27$$



$$37 - 1 = 36$$

$$37 - 2 = 35$$

$$37 - 3 = 34$$



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

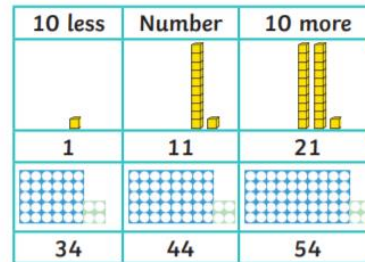
Now there are 8 flowers.



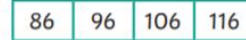
10 More or Less



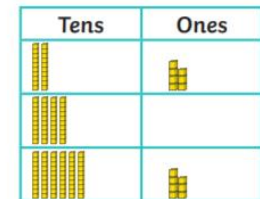
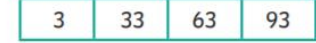
The ones digit stays the same.



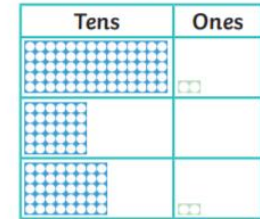
Take care when crossing hundreds:



Add and Subtract 10s

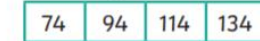


$$\begin{array}{r} 27 \\ + 40 \\ \hline 67 \end{array}$$

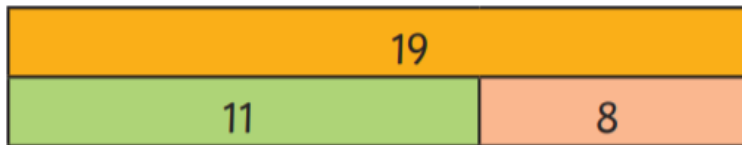


$$\begin{array}{r} 72 \\ - 30 \\ \hline 42 \end{array}$$

Crossing hundreds:



Checking 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.