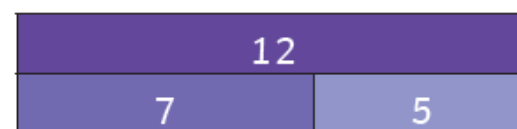
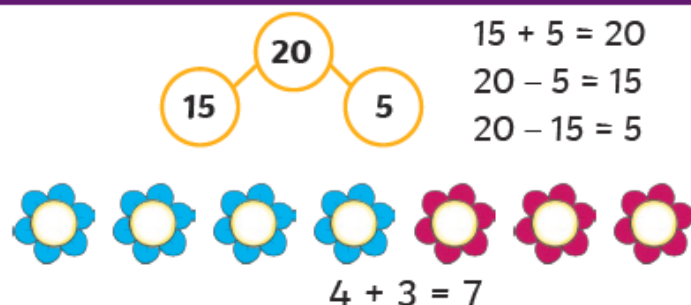


Addition and Subtraction

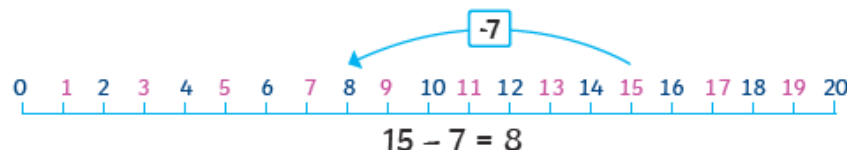
Key Vocabulary

Add
Total
Make
Plus
Sum
More
Altogether
Difference
Leave
Subtract
Difference between
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

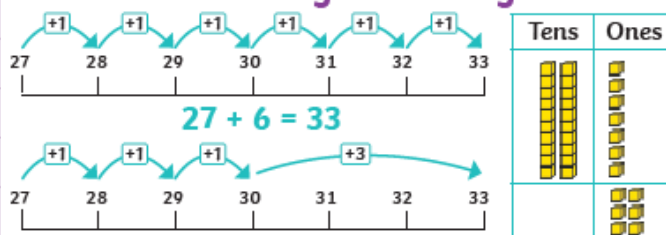


7 + 5 = 12
12 - 5 = 7
12 - 7 = 5

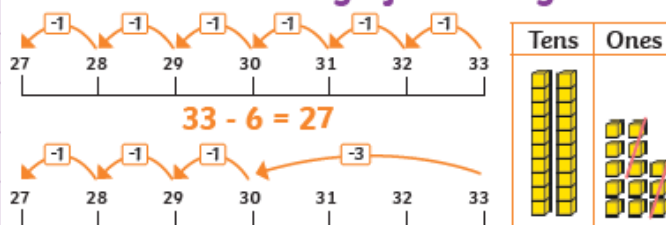


Methods

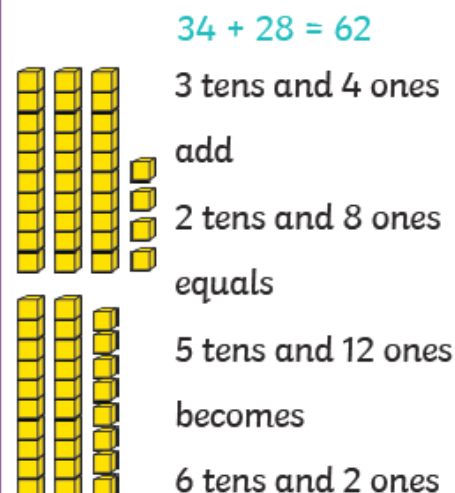
Add 2-digit and 1-digit



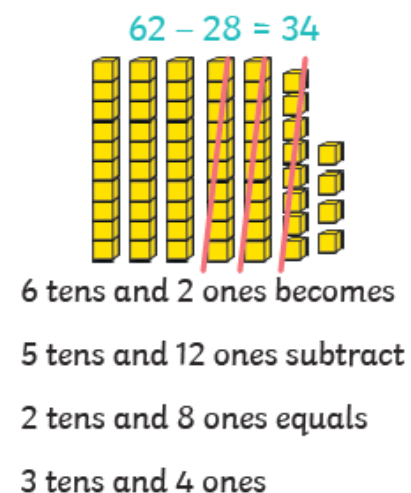
Subtract 1-digit from 2-digit



Add 2-digit numbers

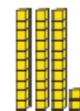


Subtract 2-digit numbers



Addition and Subtraction Bonds to 100

2 + 8 = 10
so 20 + 80 = 100

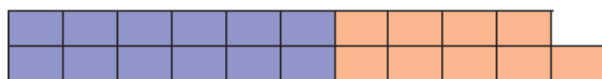


32 + 68 = 100
3 tens and 2 ones + 6 tens and 8 ones
= 9 tens and 10 ones = 10 tens = one hundred

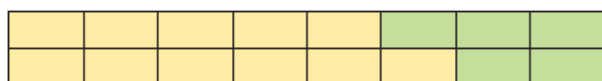
Addition and Subtraction

Mental Methods

Compare Number Sentences



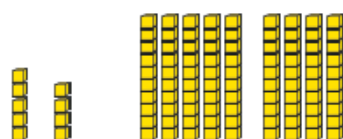
$$6 + 4 < 6 + 5$$



$$5 + 3 = 6 + 2$$

Related facts

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



Add 3 1-digit numbers



$$9 + 5 + 3 = 17$$

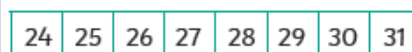
More or Less/ Add and Subtract 1s and 10s

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

30	40	50	60	70	80
----	----	----	----	----	----

47	57	67	77	87	97
----	----	----	----	----	----

The ones digit stays the same.

10 less	Number	10 more
1	11	21
34	44	54

Take care when crossing hundreds:

86	96	106	116
----	----	-----	-----

Add and Subtract 10s

10	30	50	70	90
----	----	----	----	----

3	33	63	93
---	----	----	----

Tens	Ones

$$27$$

$$+ 40$$

$$67$$

Tens	Ones

$$72$$

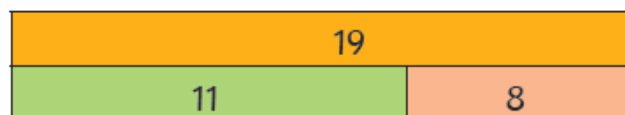
$$- 30$$

$$42$$

Crossing hundreds:

74	94	114	134
----	----	-----	-----

Check Calculations



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

$32 + 5 = 82 \times$ Spot that 5 tens have been added not 5 ones

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

$37 - 4 = 41 \times$ Spot that if subtracting 4 the answer will be smaller.

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