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
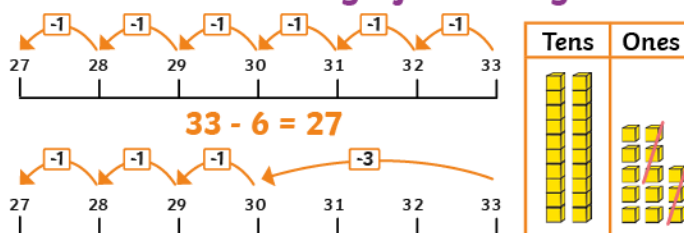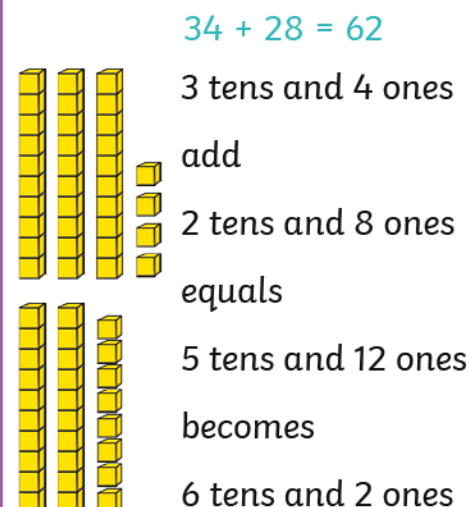- Place Value

Addition and Subtraction Bonds to 20

$15 + 5 = 20$
$20 - 5 = 15$
$20 - 15 = 5$

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

12	
7	5

$4 + 3 = 7$

-7

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

$15 - 7 = 8$
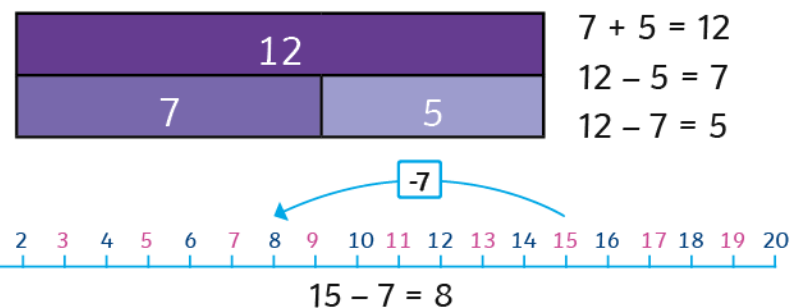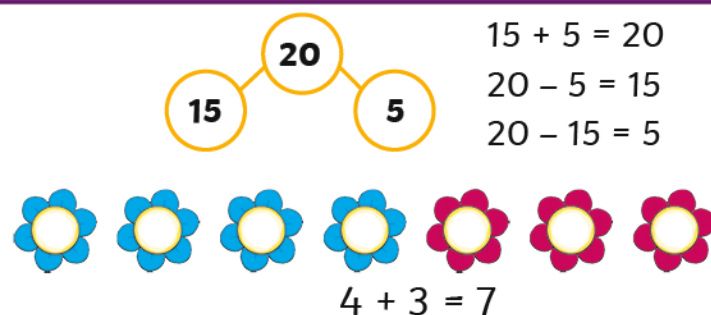
Methods

Add 2-digit and 1-digit

+1 +1 +1 +1 +1 +1
27 28 29 30 31 32 33

$27 + 6 = 33$

+1 +1 +1 +3
27 28 29 30 31 32 33
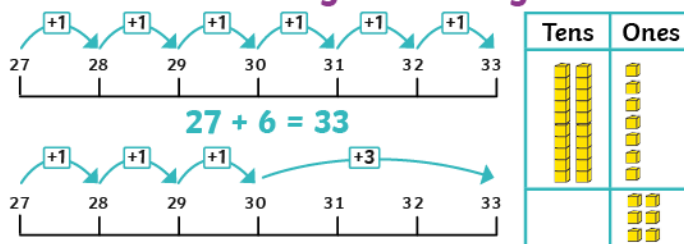
Tens	Ones

Subtract 1-digit from 2-digit

-1 -1 -1 -1 -1 -1
27 28 29 30 31 32 33

$33 - 6 = 27$

-1 -1 -1 -3
27 28 29 30 31 32 33

Tens	Ones

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
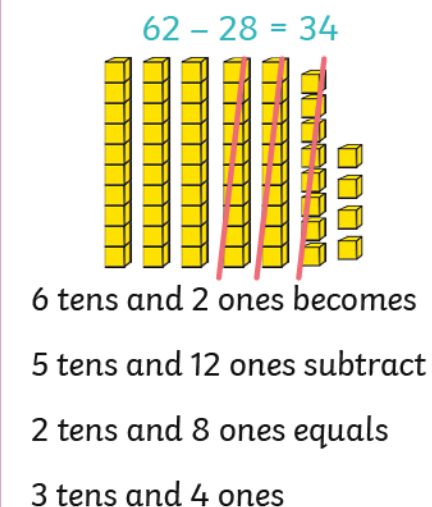
3 tens and 4 ones

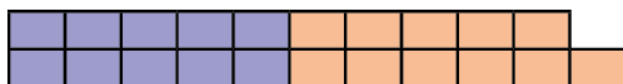## Addition and Subtraction Bonds to 100

$2 + 8 = 10$
so $20 + 80 = 100$

$32 + 68 = 100$

3 tens and 2 ones + 6 tens and 8 ones

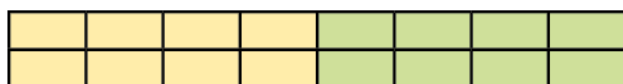= 9 tens and 10 ones = 10 tens = one hundred

Addition and Subtraction
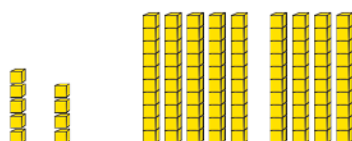
Mental Methods

Compare Number Sentences

$6 + 4 < 6 + 5$

$5 + 3 = 6 + 2$

Related facts

$5 + 4 = 9$ 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

$24 + 1 = 25$

$24 + 2 = 26$

$24 + 3 = 27$

| 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |

$37 - 1 = 36$

$37 - 2 = 35$

$37 - 3 = 34$

| 33 | 34 | 35 | 36 | 37 | 38 |

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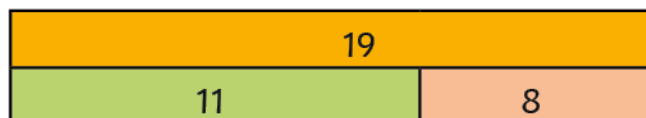
$19 - 8 = 11$ can be checked using $8 + 11 = 19$

$32 + 5 = 82$ 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.