

# In maths we are learning about...

## Addition and Subtraction

## Knowledge Organiser

### 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

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

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

$4 + 3 = 7$

$15 - 7 = 8$

### Methods

#### Add 2-digit and 1-digit

$27 + 6 = 33$

$27 + 3 = 30$   
 $30 + 3 = 33$

#### Subtract 1-digit from 2-digit

$33 - 6 = 27$

$33 - 3 = 30$   
 $30 - 3 = 27$

#### 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  $20 + 80 = 100$

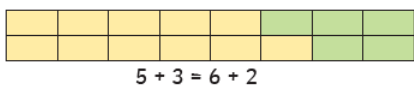
$32 + 68 = 100$   
 3 tens and 2 ones + 6 tens and 8 ones  
 = 9 tens and 10 ones = 10 tens = one hundred

## Addition and Subtraction

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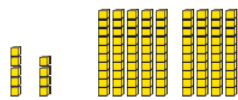
### Mental Methods

#### Compare Number Sentences



#### Related facts

$5 + 4 = 9$  so  $50 + 40 = 90$



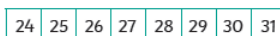
#### Add 3 1-digit numbers



### 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
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#### Add and Subtract 10s

10	30	50	70	90
3	33	63	93	

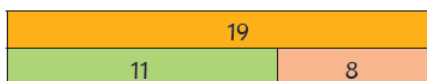
Tens	Ones
27	
+ 40	
67	

Tens	Ones
72	
- 30	
42	

Crossing hundreds:

74	94	114	134
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### 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.