

# 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

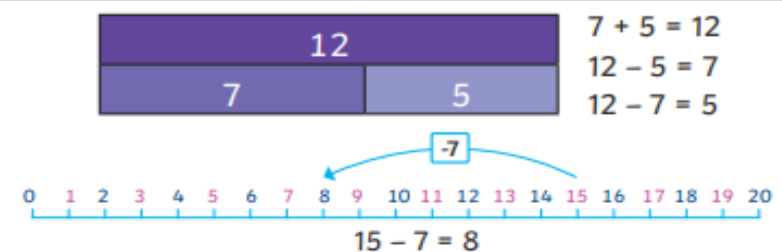
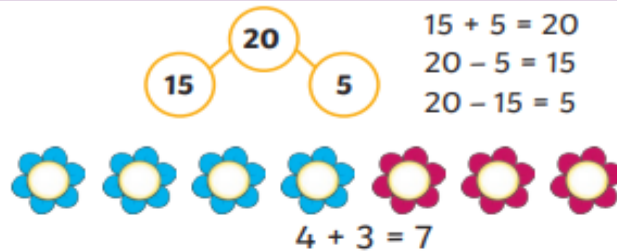
Solve problems

Number facts

Place Value

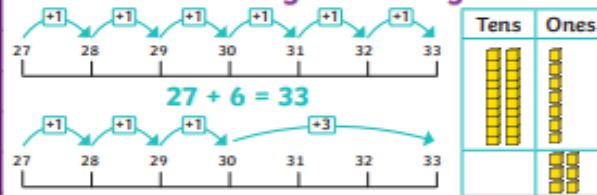
Year 2

## Addition and Subtraction Bonds to 20

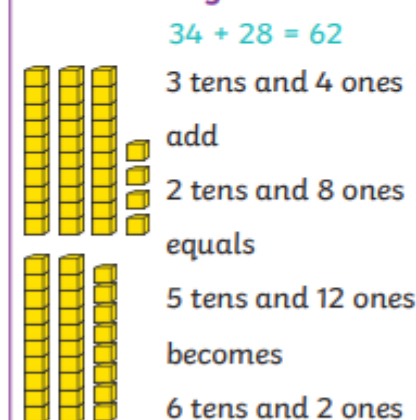


## Methods

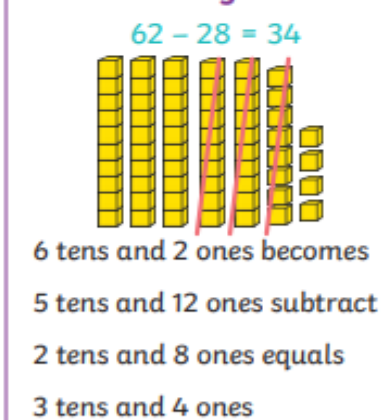
### Add 2-digit and 1-digit



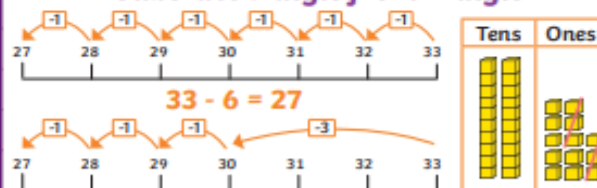
### Add 2-digit numbers



### Subtract 2-digit numbers

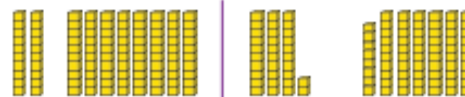


### Subtract 1-digit from 2-digit



## Addition and Subtraction Bonds to 100

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



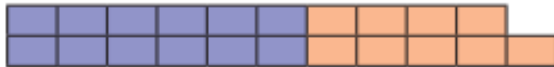
$32 + 68 = 100$   
 3 tens and 2 ones + 6 tens and 8 ones  
 = 9 tens and 10 ones = 10 tens = one hundred

# Addition and Subtraction

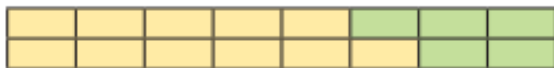
# Knowledge Organiser

## 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
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47	57	67	77	87	97
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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
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3	33	63	93
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Tens	Ones

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

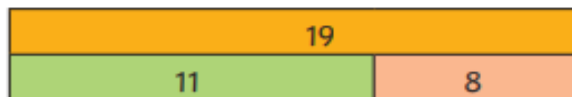
Tens	Ones

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

Crossing hundreds:

74	94	114	134
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## Check Calculations



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

Year 2

$32 + 5 = 82$  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.