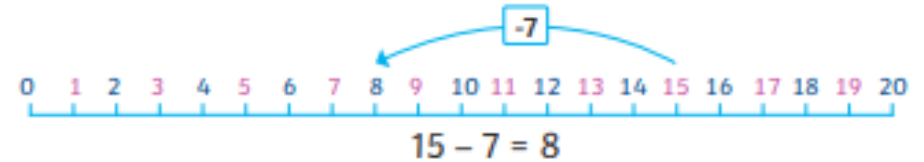
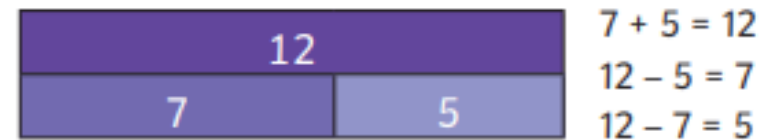
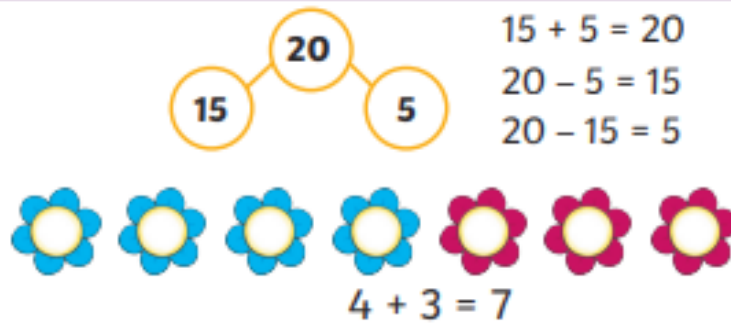


Key Vocabulary

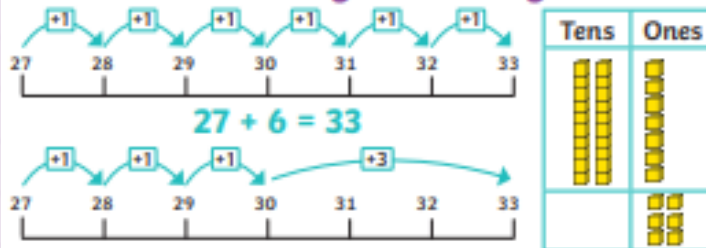
- Add
- Total
- Make
- Plus
- Sum
- More
- Altogether
- Difference
- Leave
- Subtract
- Difference between
- Less
- Minus
- Take away
- Mentally, Orally
- Column Addition
- Column Subtraction
- Estimate
- Inverse operation
- Solve problems
- Number facts
- Place Value

Addition and Subtraction Bonds to 20

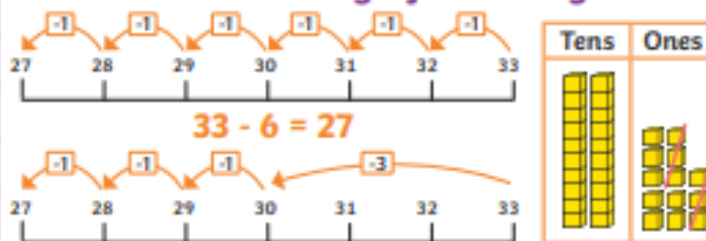


Methods

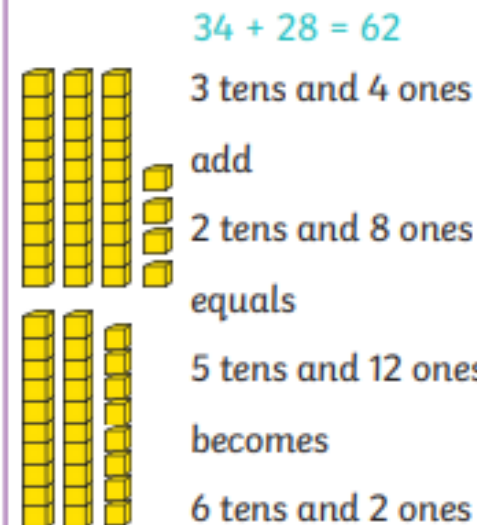
Add 2-digit and 1-digit



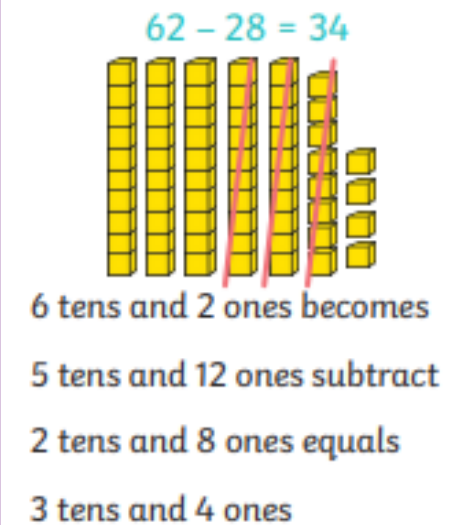
Subtract 1-digit from 2-digit



Add 2-digit numbers



Subtract 2-digit numbers

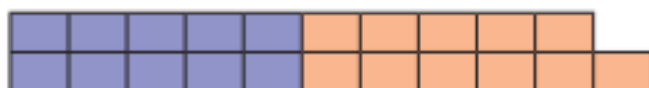


Addition and Subtraction Bonds to 100

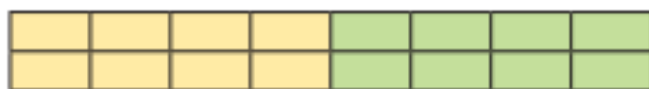


Mental Methods

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
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Add and Subtract 10s

10	30	50	70	90
3	33	63	93	

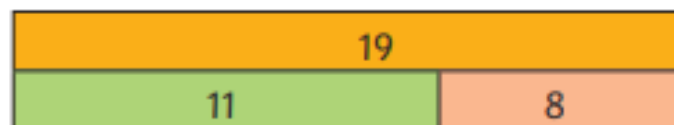
Tens	Ones	
		27
		+ 40
<hr/>		67

Tens	Ones	
		72
		- 30
<hr/>		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.