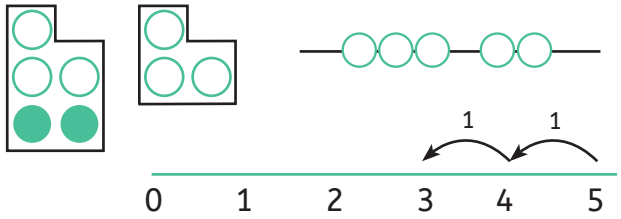
Subtraction
EYFS

I just knew it!

- Number facts
- Single digit numbers

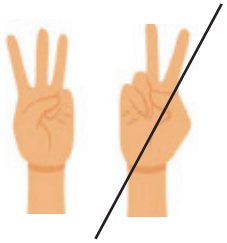
Find the difference
between two numbers

5 is 2 more than 3, 3 is 2 less than 5
so the difference between 5 and 3 is 2

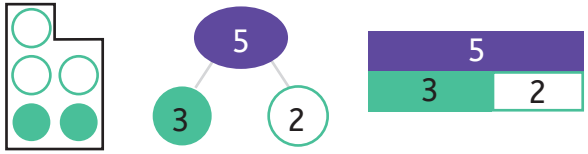


Use known addition facts to derive
subtraction facts

If I know 3 and 2 make 5
then I know that
5 take away 2 leaves 3

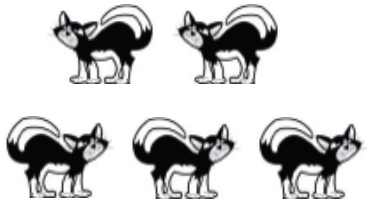


Secure composition of single digits

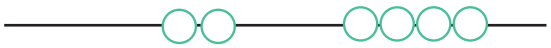


Using subitising

5 is made of 3 and 2 so take
3 away from 5 leaves 2



Counting back in 1s

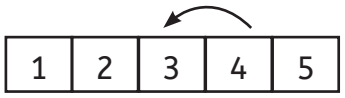


Link to 1 less

Find one less

Notice the relationships

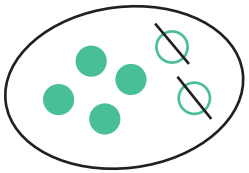
1 less than 4 is 3



1 less than 5 is 4

Take away

6 is the whole. The part I take away is 2.
The part that is left is 4.



Subtraction
YEAR 1

5 - 1
7 - 3
10 - 6

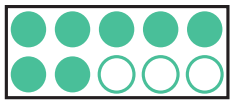
I just knew it!

- Number facts
- Single digit numbers
- Teens subtract single digits

3 + 7

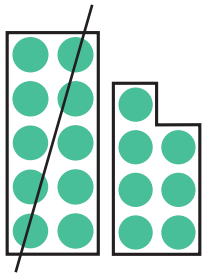
Use known addition facts to derive subtraction facts

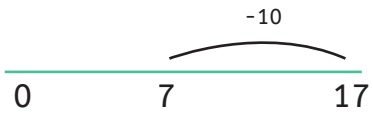
If I know 3 + 7 = 10
then I know 10 - 3 = 7



17 - 10

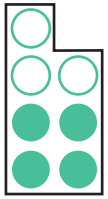
Take away 10

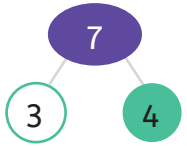




7 = 3 + 4

Secure subtraction facts of single digits and ten

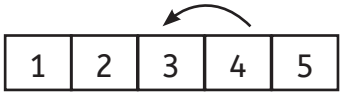




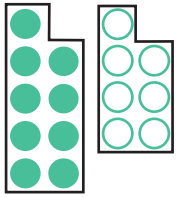
23 - 1
Find one less

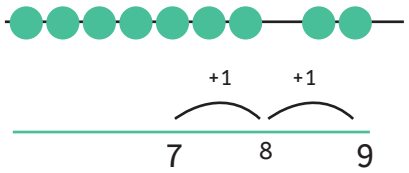
Notice the relationships

1 less than 4 is 3
1 less than 14 is 13
1 less than 24 is 23



9 - 7 Find the difference between two numbers

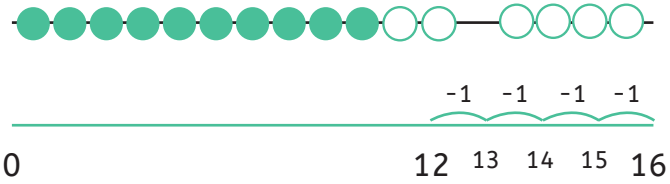




9 is 2 more than 7, 7 is 2 less than 9
so the difference between 7 and 9 is 2

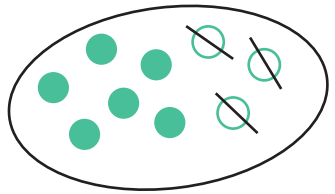
16 - 4

Counting back in 1s



9 - 3

Take away



Subtraction
YEAR 2

9 - 4
13 - 5
18 - 9

I just knew it!

- Number facts
- Single digit numbers
- Halves
- Teens and single digits

23 - 5

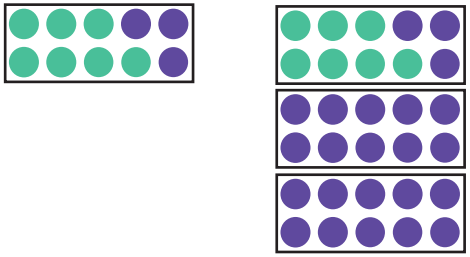
Count back: bridge through a multiple of ten

30 - 7

Use known facts

If I know 10 - 7 = 3
then I know
30 - 7 is 2 tens and 3

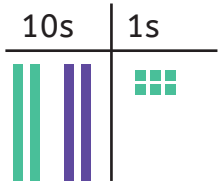
100 - 70



46 - 20

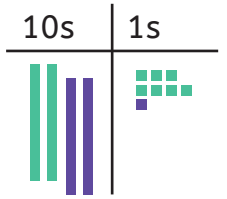
Count back: multiples of 10

If I know 4 - 2 + 2
then I know
4 tens - 2 tens = 2 tens
so 40 - 20 = 20

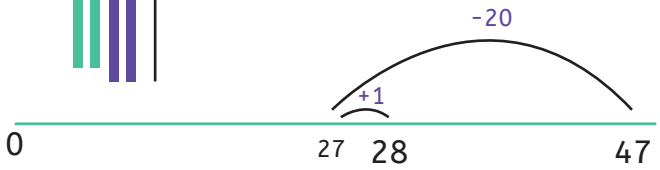


47 - 19

Round then adjust

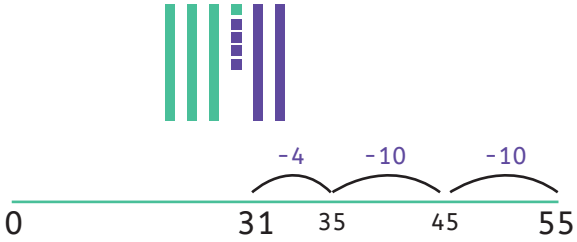


Add 20 then subtract 1



55 - 24

Count on in tens then ones



42 - 37

Find the difference between two numbers

42 is 5 more than 37, 37 is 5 less than 42
so the difference between 37 and 42 is 5

Subtraction
YEAR 3

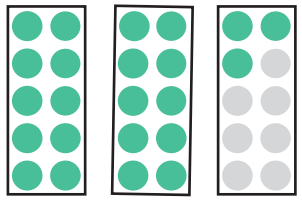
15 - 8
18 - 5

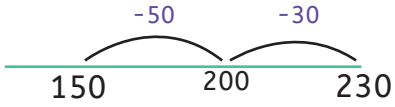
I just knew it!

- Number facts
- Single digit numbers
- Teens and single digits

230 - 80

Bridging boundaries by counting back in efficient steps

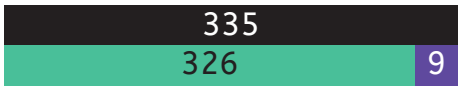


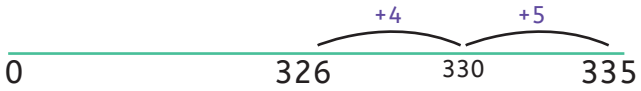


335 - 326

Find the difference between two numbers

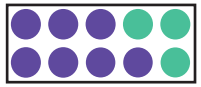
335 is 9 more than 326,
326 is 9 less than 335
so the difference between them is 9





240 - 7

Use known facts



1000 - 700

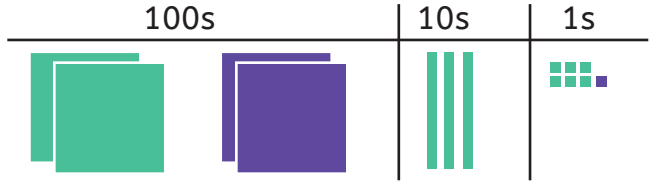
If I know 10 - 7 = 3
then I know
10 hundreds - 7 hundreds = 3 hundreds

If I know 10 - 7 = 3
then I know any multiple of 10,
take away 7 leaves 3 in the ones

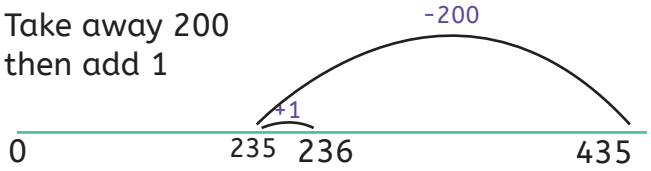
□0 - 7 = □3

435 - 199

Round then adjust



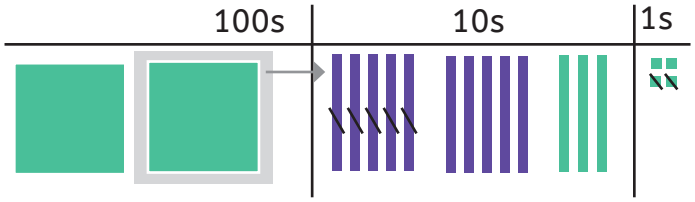
Take away 200
then add 1



234 - 152

Formal written method

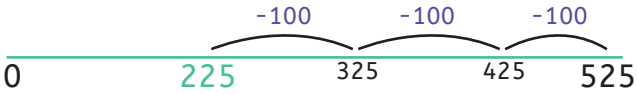
$$\begin{array}{r} {\scriptstyle 1\ 1} \\ 234 \\ -152 \\ \hline 82 \end{array}$$

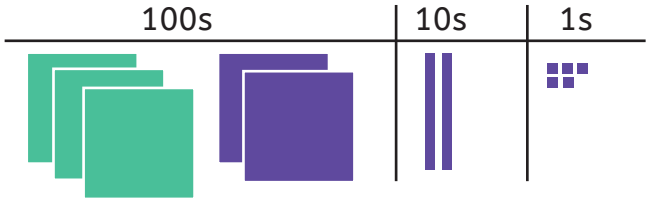


234 = 100 + 130 + 4

525 - 300

Take away multiples of ten and a hundred





Subtraction
YEAR 4

13 - 5
1.8 - 0.8

I just knew it!

- Number facts
- Single digit decimals
- Halves
- Wholes and tenths

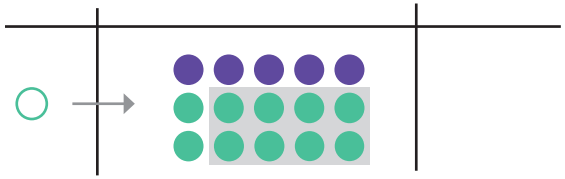
1.5 - 0.7

Bridge through boundaries by counting in efficient steps

15 - 8 = 7
Use known facts

If I know 15 - 8 = 7 then I know 1.5 - 0.8 = 0.7

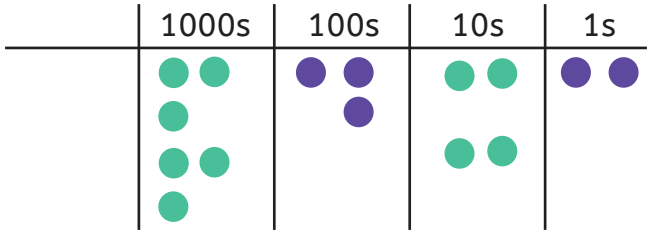
150 - 80 = 70
1500 - 800 = 700



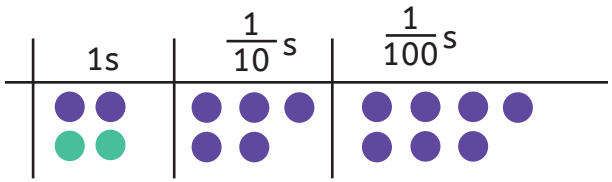
6,342 - 3,020

Use place value to subtract

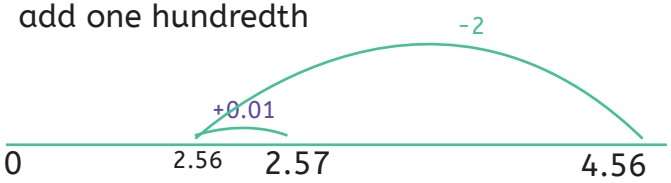
By using place value counters it is easy to see how to take away



4.56 - 1.99 Round then adjust



Take away 2 then add one hundredth



5,352 - 2,136
Formal written method

Regroup and rename

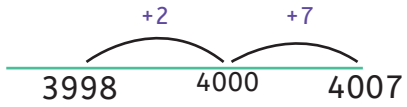
Exchange ten of these for one of those

$$\begin{array}{r} {\scriptstyle 4\ 1\ 4\ 1} \\ 5{,}352 \\ -2{,}436 \\ \hline 2{,}916 \end{array}$$

	1000s	100s	10s	1s

4007 - 3998

Find the difference between two numbers



Subtraction
YEAR 5

9 - 4
13 - 5
18 - 9

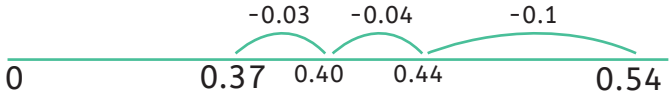
I just knew it!

- Number facts
- Single digit decimals
- Halves
- Subtract from 1 and 100

Rapid fluency of
2 digit subtract
2 digit numbers

0.54 - 0.17

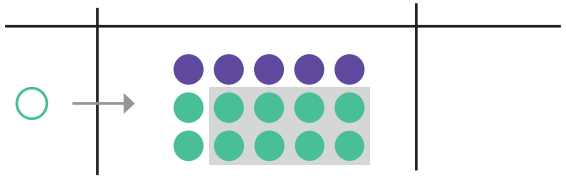
Bridge through boundaries
by counting in efficient steps



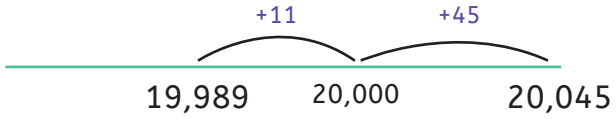
15 - 8 = 7
Use known facts

If I know 15 - 8 = 7
then I know
1.5 - 0.8 = 0.7

15,000 - 8,000 = 7,000
150,000 - 80,000 = 70,000
1,500,000 - 800,000 = 700,000



20,045 - 19,989
Find the difference between two numbers



40,012 - 3,005
Use place value
to subtract

5 less than 12 is 7
now it is easy to
take away 3000

If I know 40 - 3 = 37
then I know that 40 thousand take
away 3 thousand is 37 thousand

40,000 = 4 tens of thousands or 40 thousands
12 = 1 ten and 2 ones or 12 ones

40,012 = 40 thousands and 12 ones
take away 3 thousands and 5 ones
equals 37 thousands and 7 ones

45,748 - 26,374
Formal written method

Regroup and
rename

Exchange ten of these
for one of those

$$\begin{array}{r} {}^{3}{}^{1}{}_{}{}^{6}{}_{}{}^{1} \\ 45{,}748 \\ -\,26{,}374 \\ \hline 19{,}374 \end{array}$$

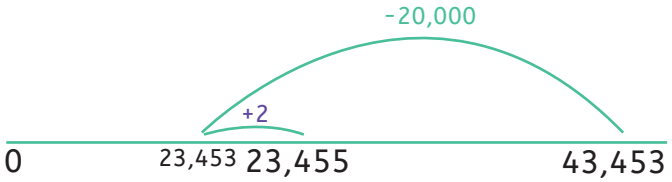
	1000s	100s	10s	1s

43,453 - 19,998

Round then adjust

10,000s	1000s	100s	10s	1s
⊘ ⊘	● ● ●	● ● ●	● ● ● ●	● ● ● ● ●

Take away 2 then
add one hundredth



Subtraction
YEAR 6

0.9 - 0.4
100 - 65

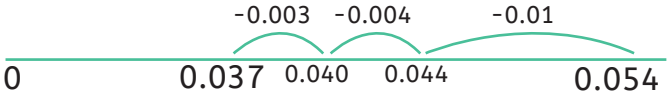
I just knew it!

- Number facts
- Single digit decimals
- Halves
- Bonds of 1 and 100

Rapid fluency of
2 digit subtract
2 digit numbers

0.054 - 0.017

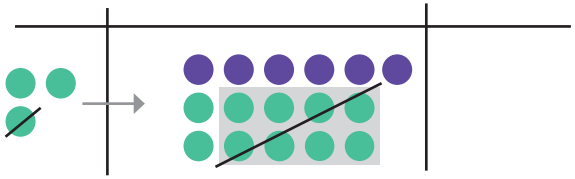
Bridge through boundaries
by counting in efficient steps



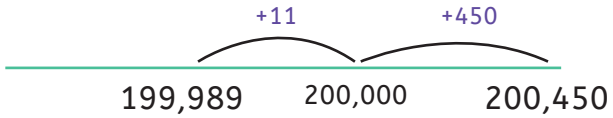
36 - 18 = 18
Use known facts

If I know 36 - 18 = 18
then I know
3.6 - 1.8 = 1.8

36,000 - 18,000 = 18,000
360,000 - 180,000 = 180,000
3,600,000 - 1,800,000 = 1,800,000



200,450 - 199,989
Find the difference between two numbers



400,032 - 30,005
Use place value
to subtract

5 less than 32 is 27

400,000 = 4 hundreds of thousands
or 400 thousands
400 - 30 = 370 so 400,000 - 30,000 = 370,000

400,032 = 400 thousands and 32 ones
take away 30 thousands and 5 ones
= 370,027

445,748 - 126,374
Formal written method

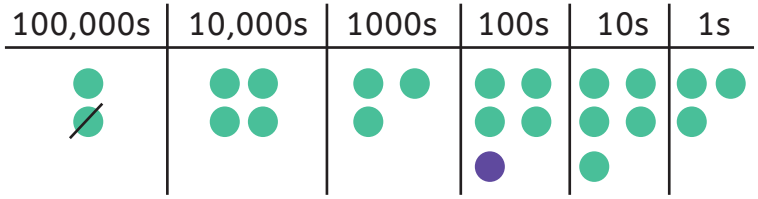
Regroup and
rename

Exchange ten of these
for one of those

$$\begin{array}{r} {}^{3}{}^{1}{}_{}{}^{6}{}_{}{}^{1} \\ 445{,}748 \\ -126{,}374 \\ \hline 319{,}374 \end{array}$$

100,000s	10,000s	1000s	100s	10s	1s

243,453 - 99,900 Round then adjust



Take away 100,000
then add 100