1

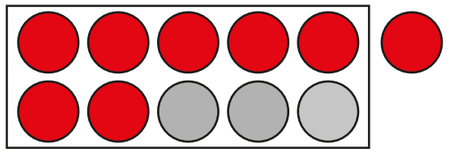
How shall I add?

4 + 1, 6 + 3, 10 + 4
Number facts
Single digit numbers
Doubles
Ten and single digits

I just knew it!

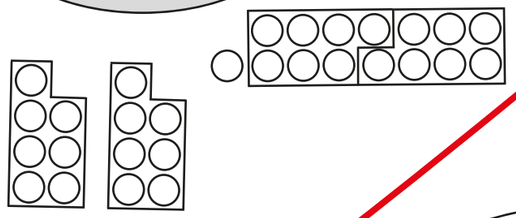
3 + 7
Use known addition facts

If I know 3 + 7 = 10
then I know
3 + 8 = 11
because it is 1 more

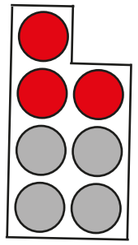


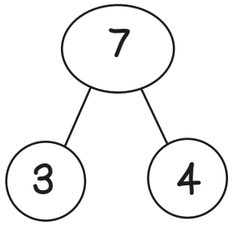
7 + 8
Use near doubles

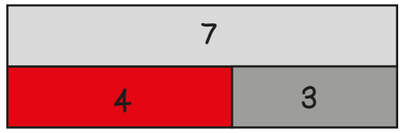
If I know 7 + 7 = 14
then I know
7 + 8 = 15
because it is 1 more



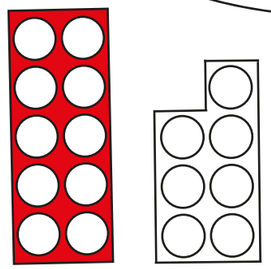
7 = 3 + 4
Secure addition bonds of single digits and ten

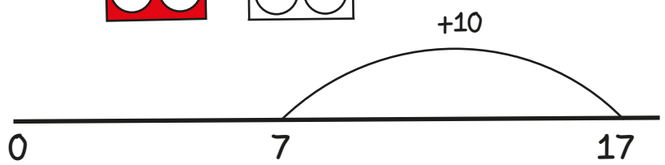




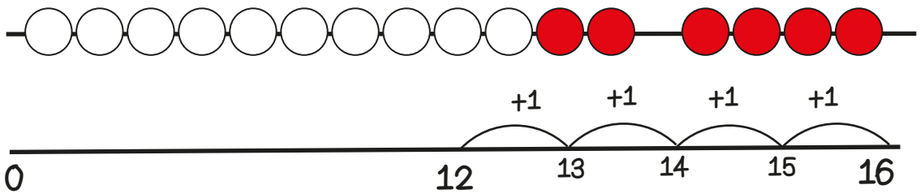


7 + 10
Add ten





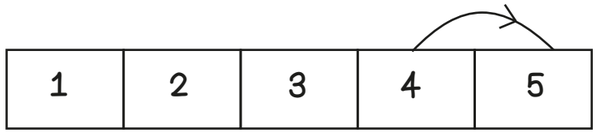
12 + 4
Counting on in 1s

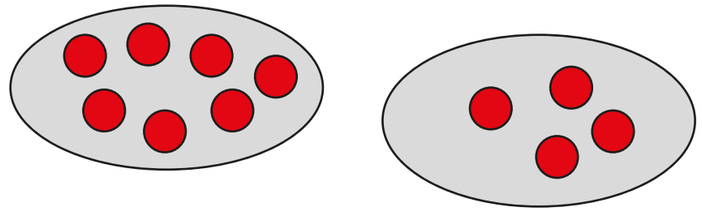


Notice the relationships

24 + 1
Find one more

1 more than 4 is 5
1 more than 14 is 15
1 more than 24 is 25





7 + 4
Count all

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1

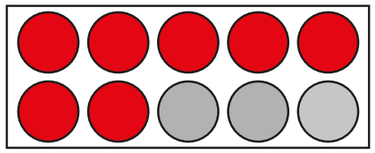
How shall I subtract?

5 - 1, 7 - 3, 10 - 6
Number facts
Single digit numbers
Teens subtract single digits

I just knew it!

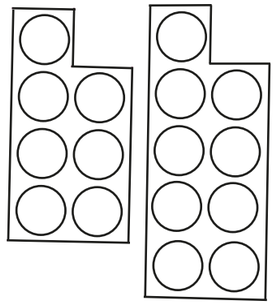
3 + 7
Use known addition facts to derive subtraction facts

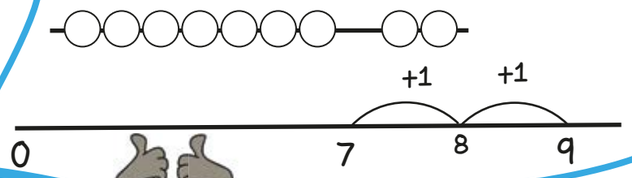
If I know 3 + 7 = 10 then I know 10 - 3 = 7



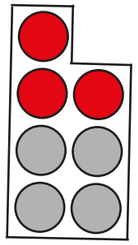
9 - 7
Find the difference between two numbers

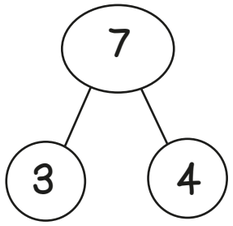
9 is 2 more than 7
7 is 2 less than 9 so the difference between 7 and 9 is 2



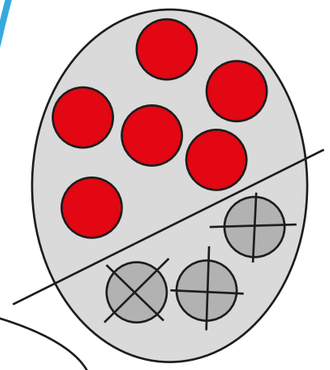


7 - 3 = 4
Secure subtraction facts of single digits and ten



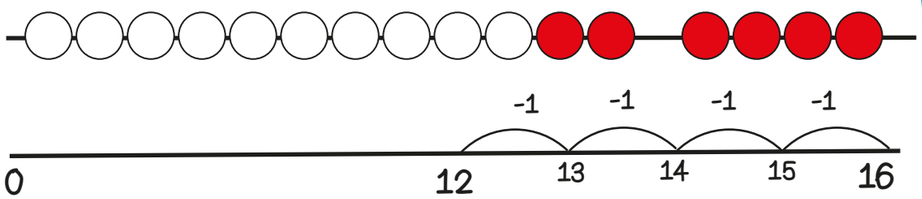


7	
4	3



9 - 3
Take away

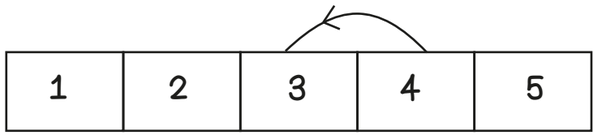
16 - 4
Counting back in 1s



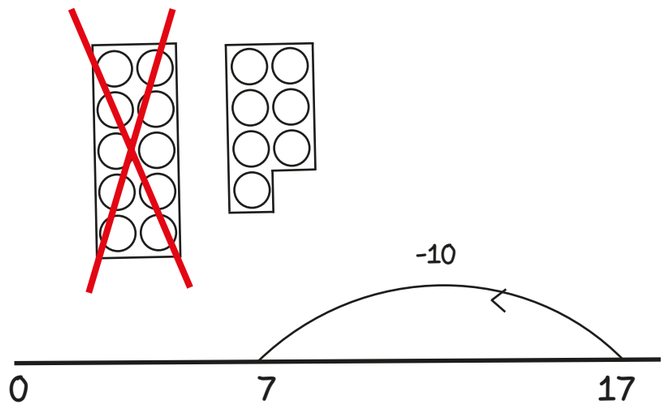
Notice the relationships

23 - 1
Find one less

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



17 - 10
Take away ten



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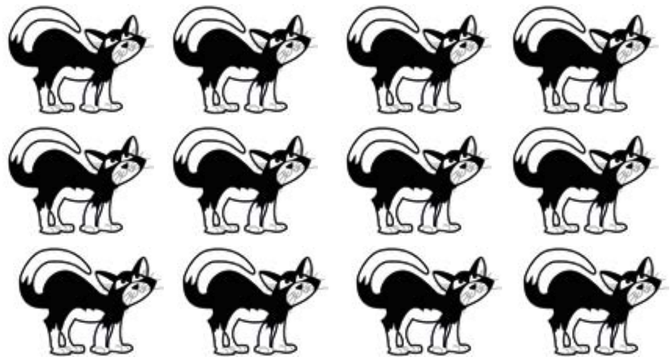
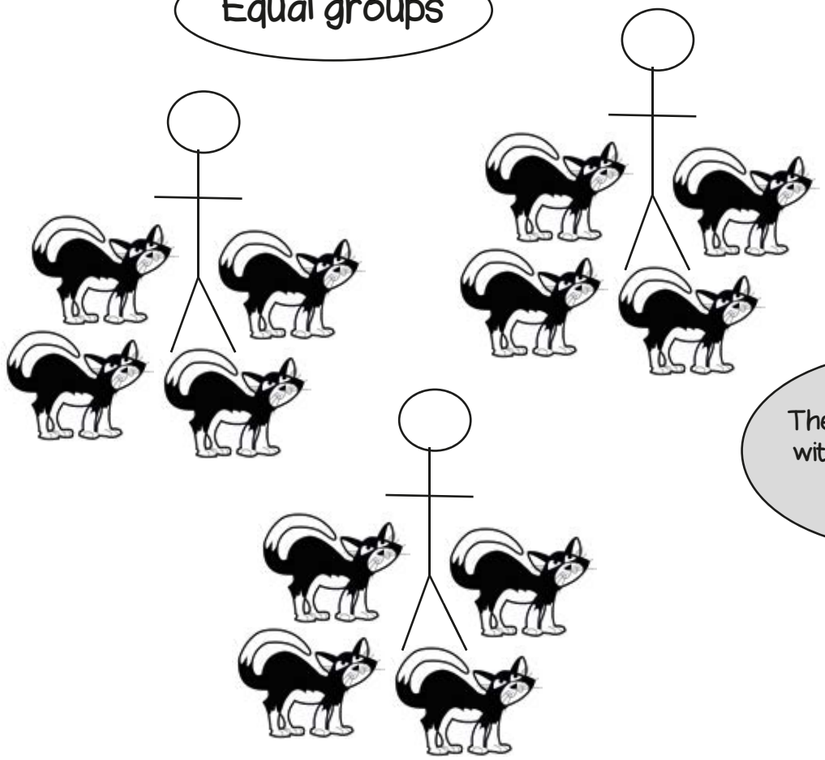
How shall I multiply?

3 people each have 4 cats.
How many cats are
there in total?



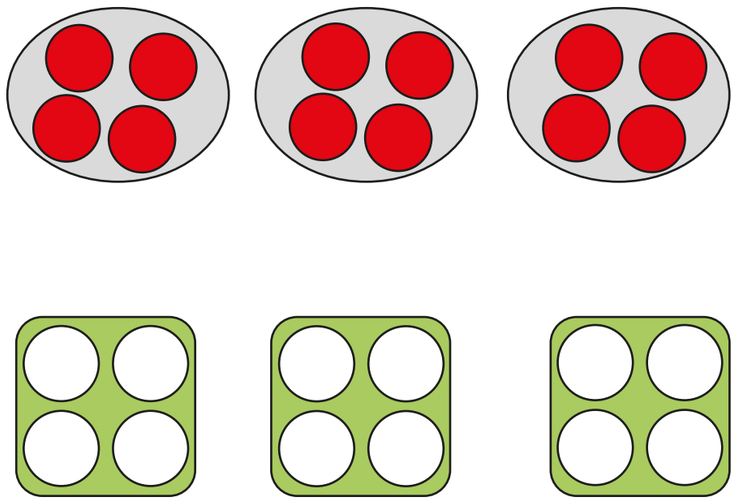
Equal groups



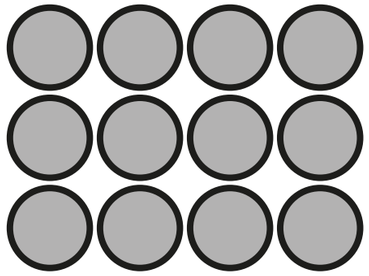
There are 3 groups
with 4 cats in each
group

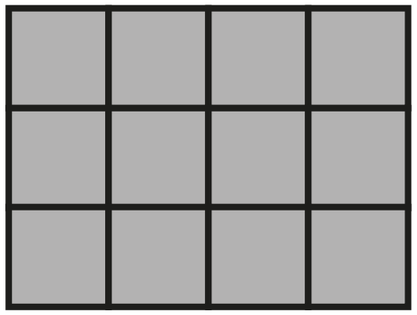
Count in ones

1,2,3,**4**,5,6,7,**8**,9,10,11,**12**

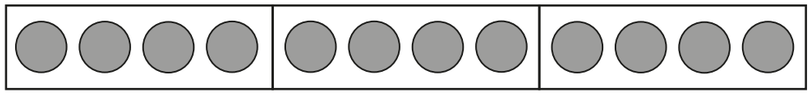


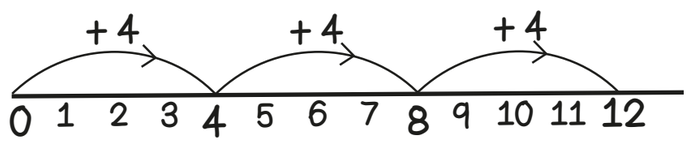
Arrays





Repeated addition





$4 + 4 + 4 = 12$

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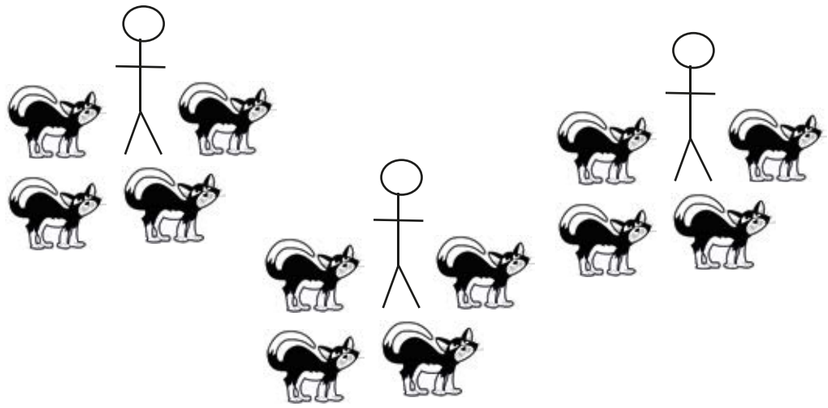
How shall I divide?

$12 \div 3 = 4$

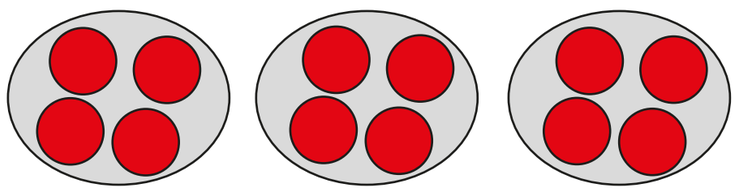
Sharing

12 shared into 3 equal groups

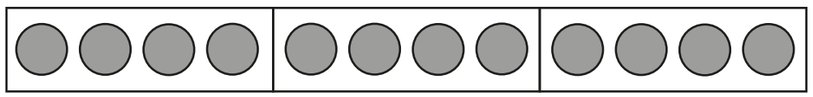
There are 12 cats.
Three people each have the same number of cats.
How many do they have each?

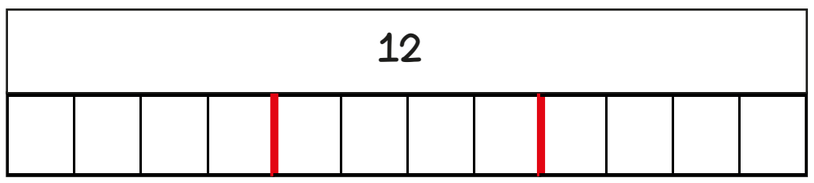


1 for you, 1 for you, 1 for you...

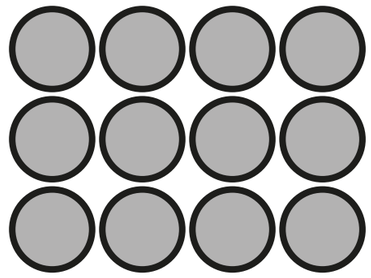


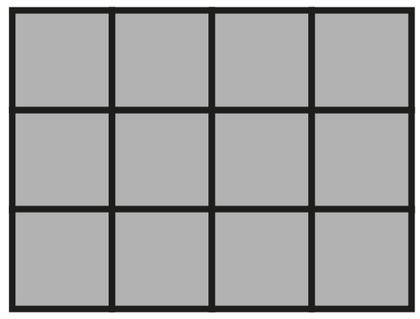
Bar model





12 can be described as
3 columns of 4
or 4 rows of three

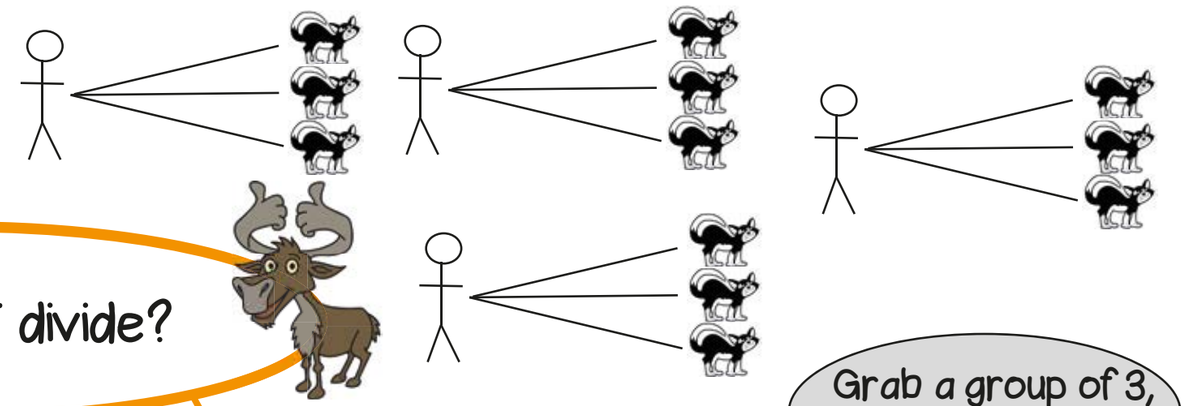




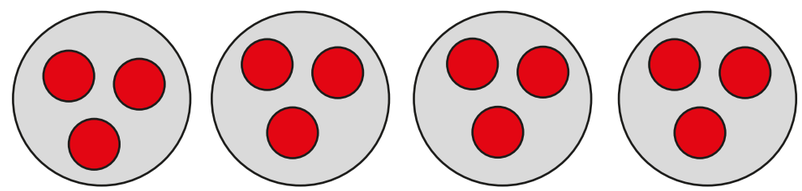
Grouping

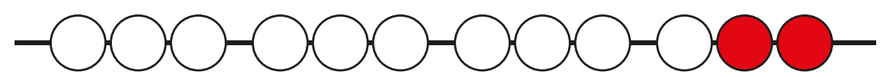
How many groups of 3 are there in 12?

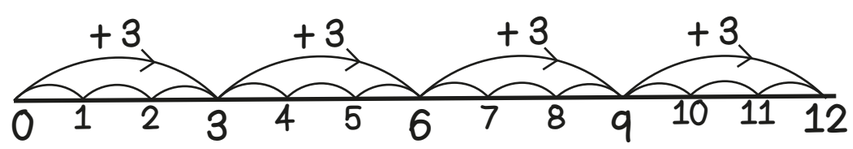
There are 12 cats.
Each person owns 3 cats.
How many people are there?



Grab a group of 3, grab a group of 3...







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How shall I add?

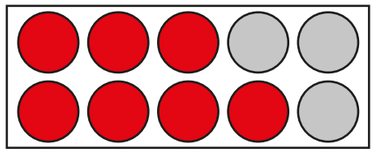
8 + 7, 9 + 9, 14 + 3
Number facts
Single digit numbers
Doubles
Teens and single digits

I just knew it!

13 + 17
Use known facts
30 + 70

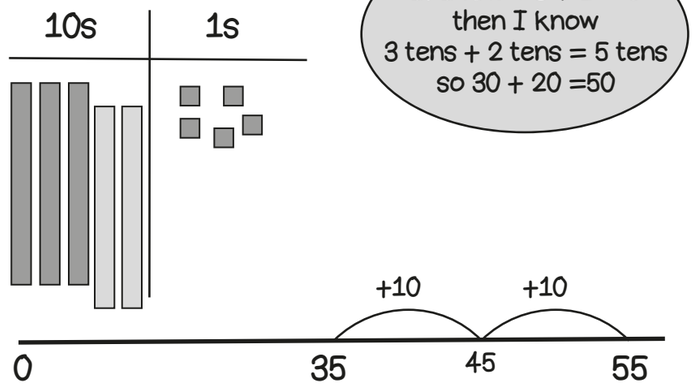
If I know 3 + 7 = 10
then I know
3 tens + 7 tens = 10 tens

If I know 3 + 7 = 10
then I know
13 + 17 is 2 tens more

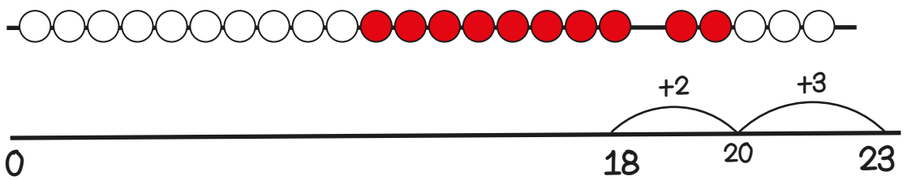


35 + 20
Add multiples of ten

If I know 3 + 2 = 5
then I know
3 tens + 2 tens = 5 tens
so 30 + 20 =50



5 + 18
Greatest number first
then bridge

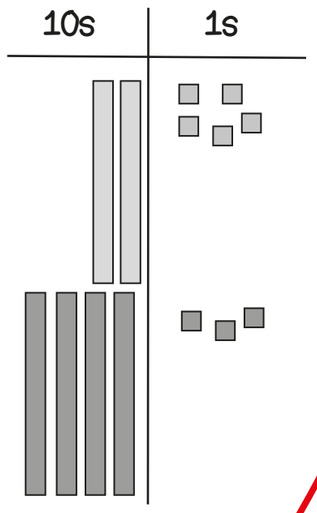


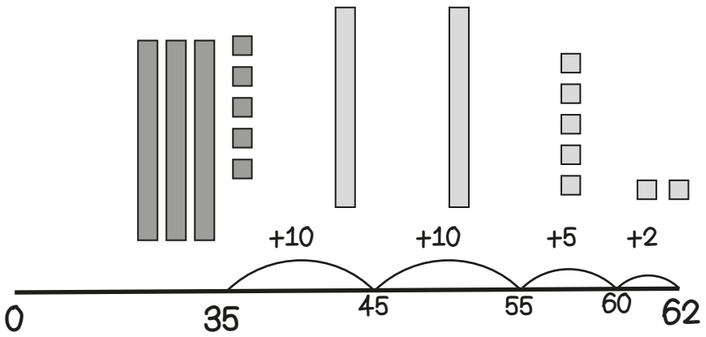
25 + 43
Partition and recombine

25 + 43

20 + 5 + 40 + 3

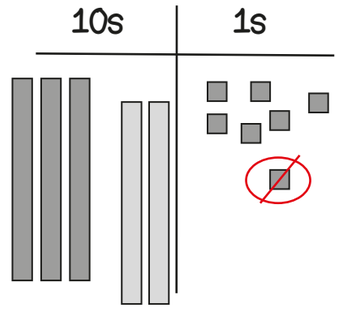
60 + 8 = 68



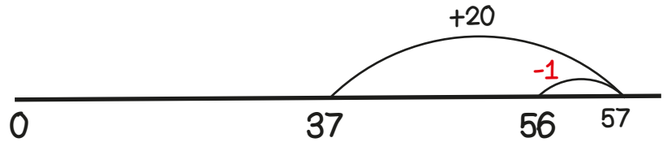


35 + 27
Count on in tens then ones

37 + 19
Round then adjust



Add 20 then subtract 1



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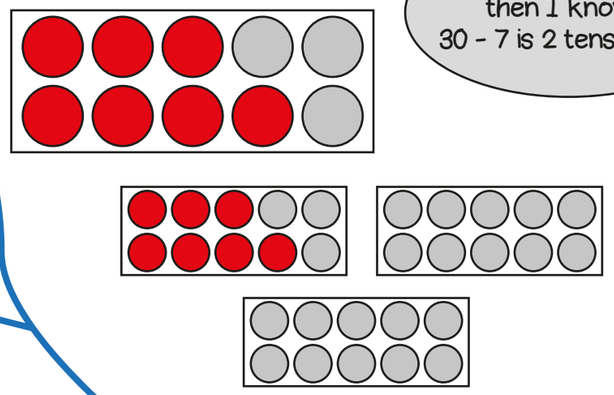
How shall I subtract?

9 - 4, 13 - 5, 18 - 9
Number facts
Single digit numbers
Halves
Teens and single digits

I just knew it!

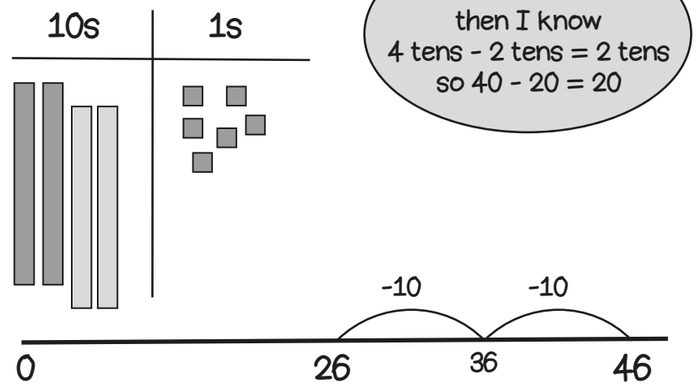
30 - 7
Use known facts
100 - 70

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

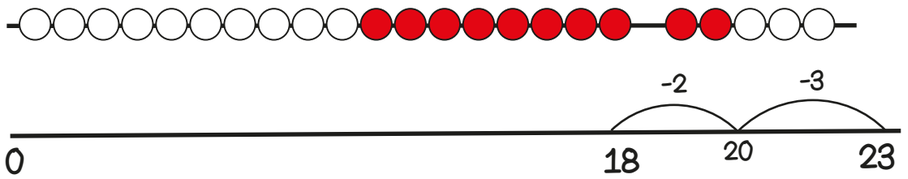


46 - 20
Count back: multiples of ten

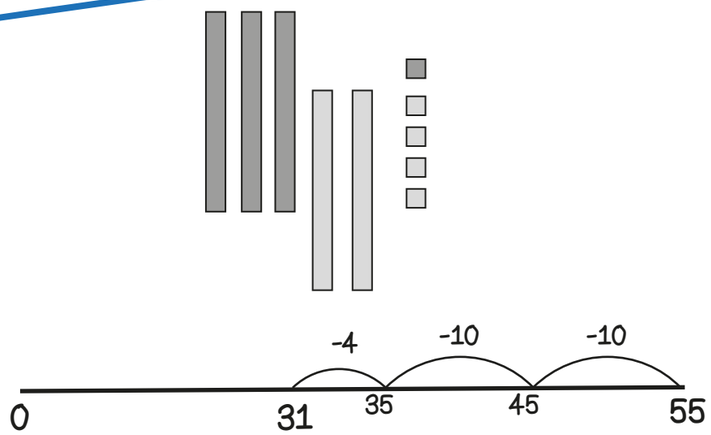
If I know 4 - 2 = 2
then I know
4 tens - 2 tens = 2 tens
so 40 - 20 = 20



23 - 5
Count back: bridge through
a multiple of ten

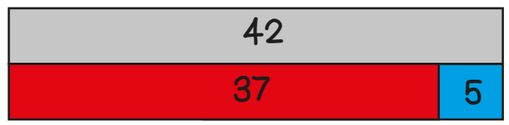


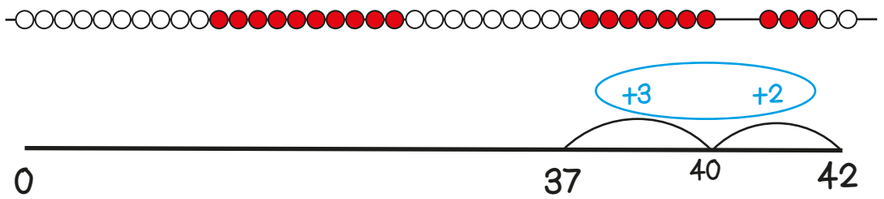
55 - 24
Count back in tens then ones



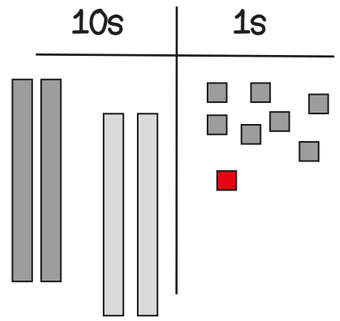
42 - 37
Find the difference between
two numbers

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

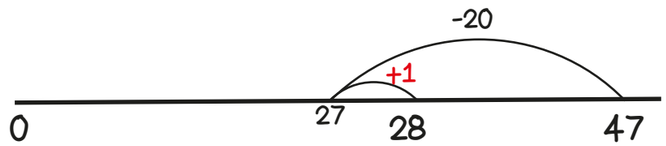




47 - 19
Round then adjust



Take away 20 then add 1



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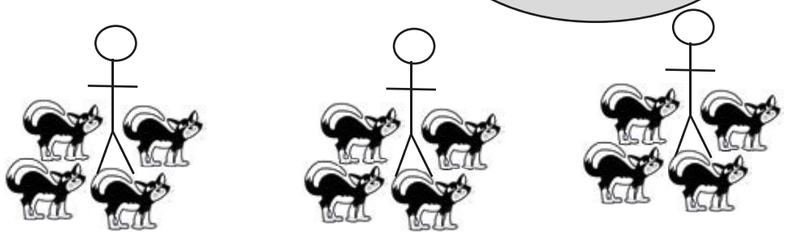
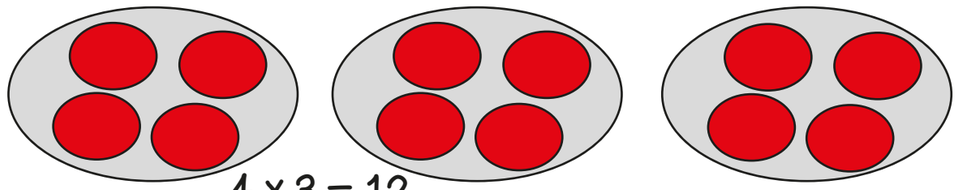
3 people each have 4 cats. How many cats are there in total?

Equal groups

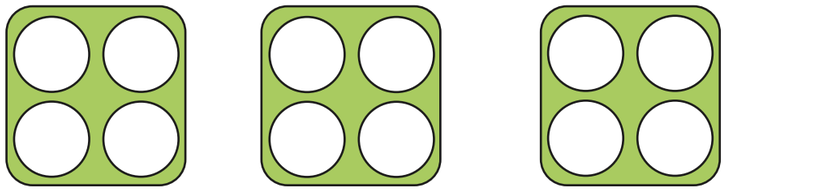
There are 3 groups with 4 cats in each group

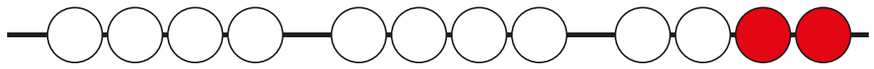


Four cats, multiplied by 3

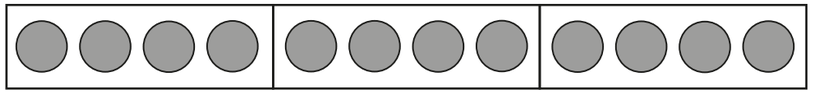


4 x 3 = 12

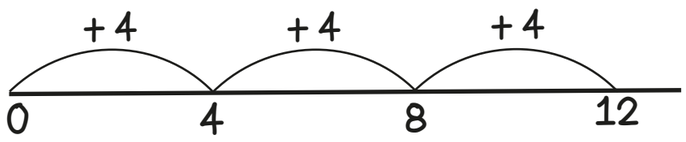




Repeated addition



4	4	4



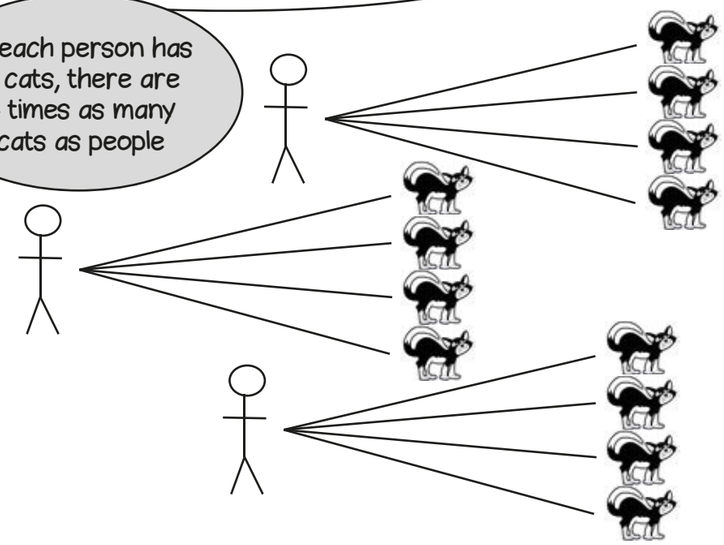
4 + 4 + 4 = 12

Recall of 2x, 5x and 10x tables

People	Cats
1	4
2	8
3	12

One to many correspondence

If each person has 4 cats, there are 4 times as many cats as people



How shall I multiply?

Count in ones

1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

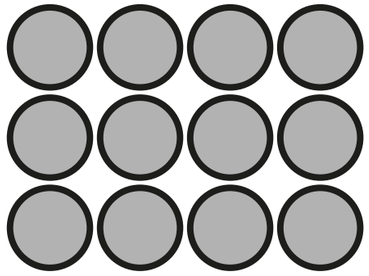
Count in twos

2, 4, 6, 8, 10,12

Use a known fact

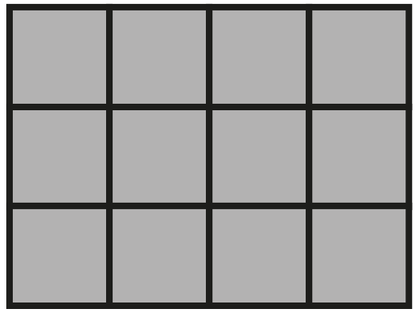
If 2 x 3 is 6, then
4 x 3 is double 6.

Arrays



4 x 3 = 12

3 x 4 = 4 x 3



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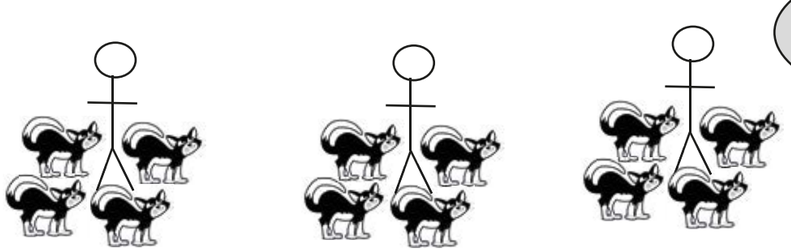
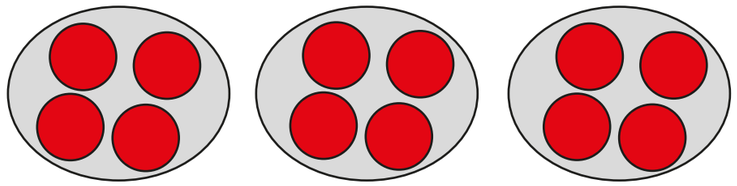
12 ÷ 3 = 4

Sharing

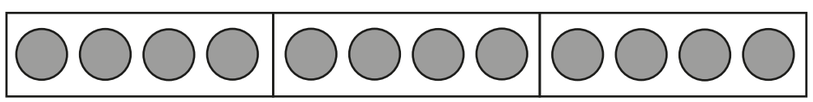
12 shared into 3 equal groups

There are 12 cats.
Three people each have the same number of cats.
How many do they have each?





Bar model



12		
4	4	4

Link to fractions.
One third of 12 is 4

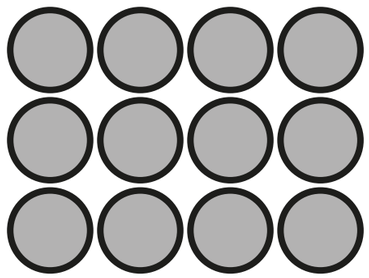
Recall and use 2x, 5x and 10x tables

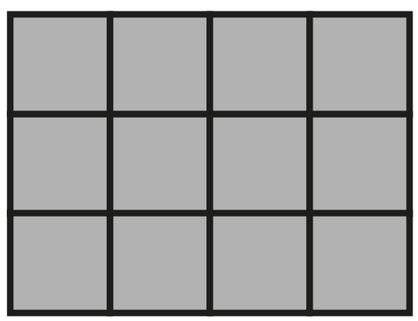
1 for you, 1 for you, 1 for you...

Grab a group of 3, grab a group of 3...

How shall I divide?

12 can be described as
3 columns of 4
or 4 rows of three

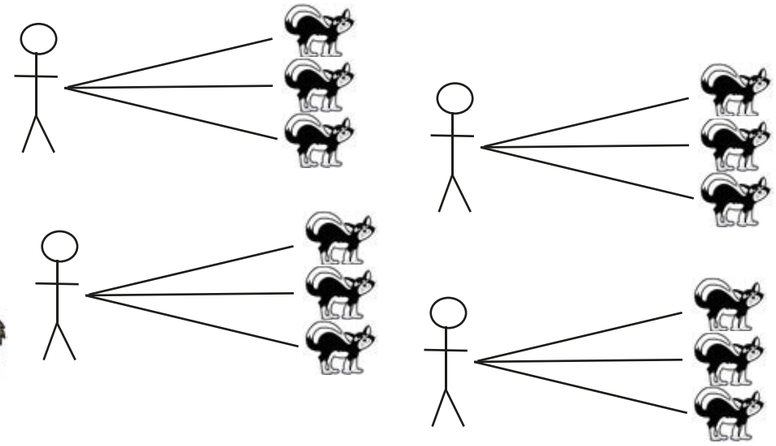


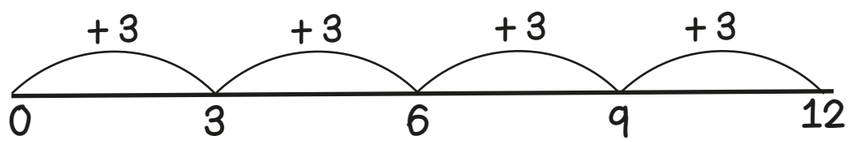


Grouping

How many groups of 3 are there in 12?

There are 12 cats.
Each person owns 3 cats.
How many people are there?





If I know 3 x 4 = 12
then I know 12 ÷ 3 = 4

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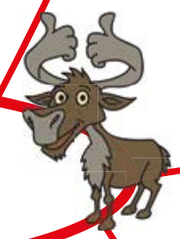
How shall I add?



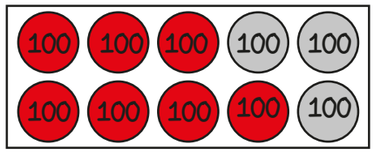
8 + 7, 9 + 9, 14 + 3
Number facts
Single digit numbers
Doubles
Tens to make 100

I just knew it!

243 + 7
Use known facts
300 + 700

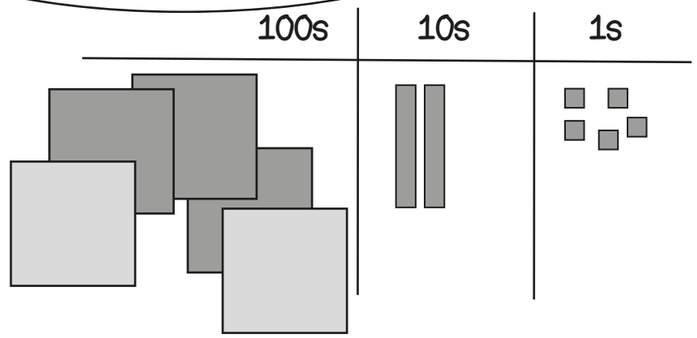
If I know 3 + 7 = 10 then I know 3 hundreds + 7 hundreds = 10 hundreds

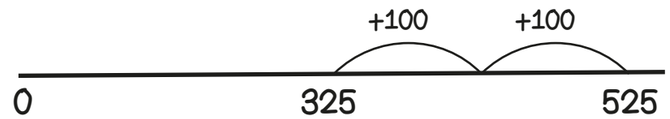
If I know 3 + 7 = 10 then I know 243 + 7 makes the next multiple of 10



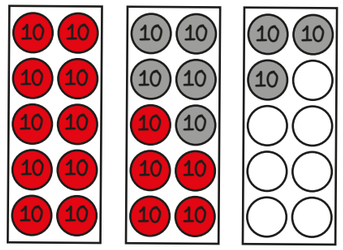
325 + 200
Add multiples of ten and hundred

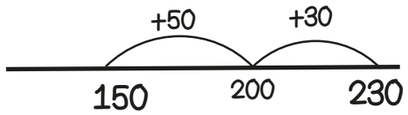
If I know 3 + 2 = 5 then I know 3 hundreds + 2 hundreds = 5 hundreds



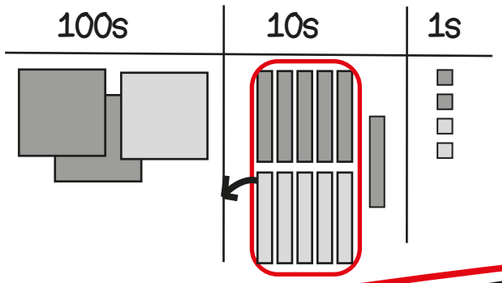


150 + 80
Bridging boundaries





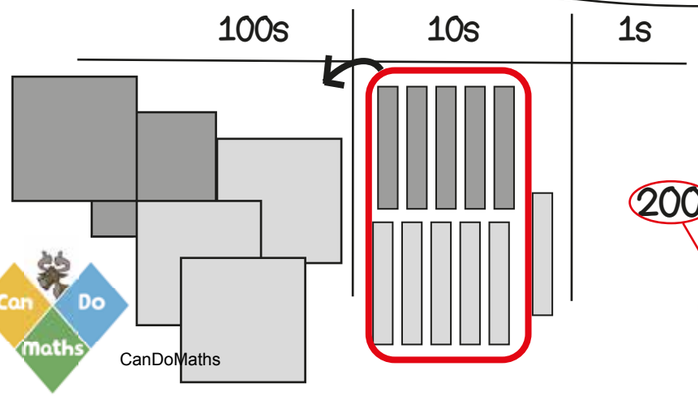
262 + 152
Formal written method



6 tens add 5 tens = 11 tens or 110

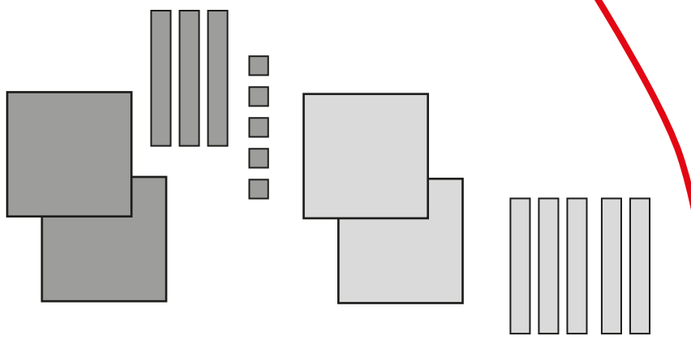
```
  2 6 2
+ 1 5 2
  4 1 4
  1
```

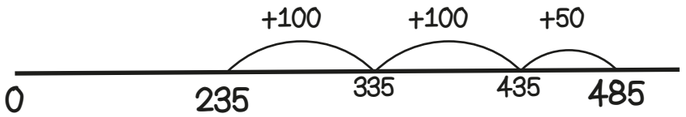
250 + 360
Partition and recombine



200 + 50 + 300 + 60

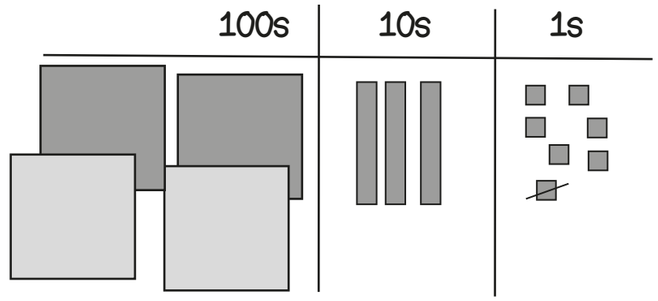
500 + 110 = 610





235 + 250
Count on in hundreds then tens

237 + 199
Round then adjust



Add 200 then subtract 1

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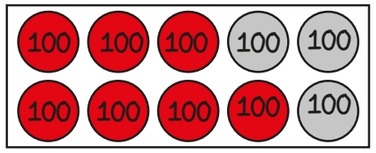
How shall I subtract?

15 - 8, 18 - 5
Number facts
Single digit numbers
Teens and single digits

I just knew it!

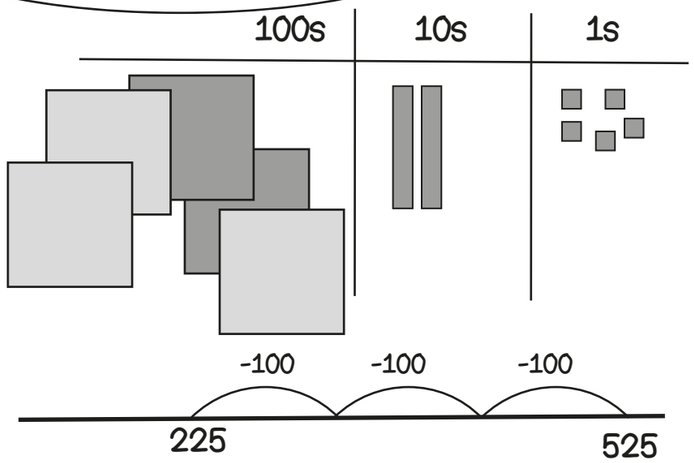
240 - 7
Use known facts
1000 - 700

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

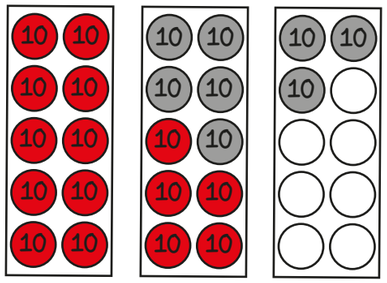


525 - 300
Take away multiples of ten
and a hundred

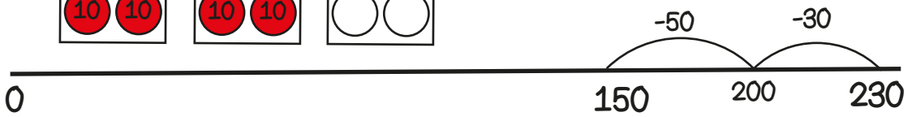
If I know 5 - 3 = 2
then I know
5 hundreds - 3 hundreds
= 2 hundreds



230 - 80
Bridging boundaries
by counting back in efficient steps



230 - 30 - 50 = 150



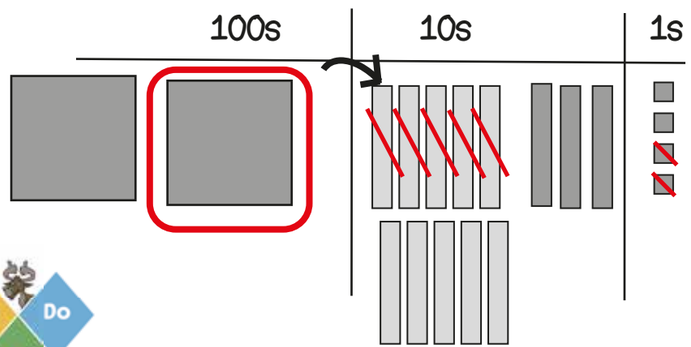
0 - 7 = 3

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

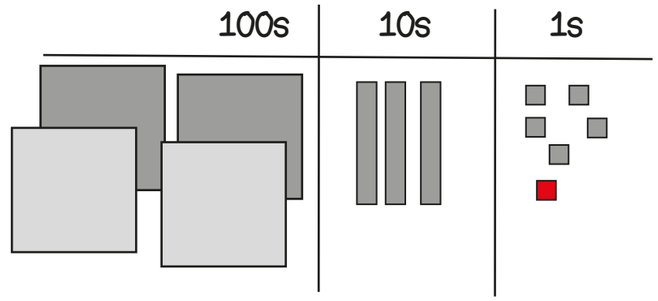
234 - 152
Formal written method

$$\begin{array}{r} {}^{1}\cancel{2}{}^{1}34 \\ -\,152 \\ \hline 82 \end{array}$$

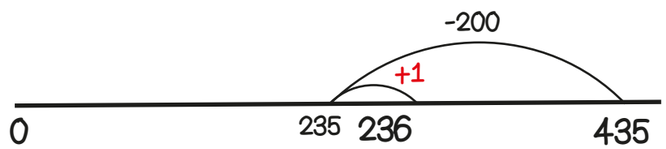
234 = 100 + 130 + 4

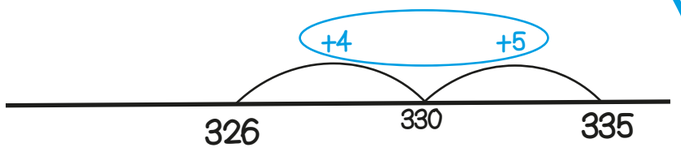


435 - 199
Round then adjust



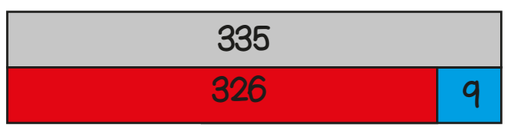
Take away 200 then add 1





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



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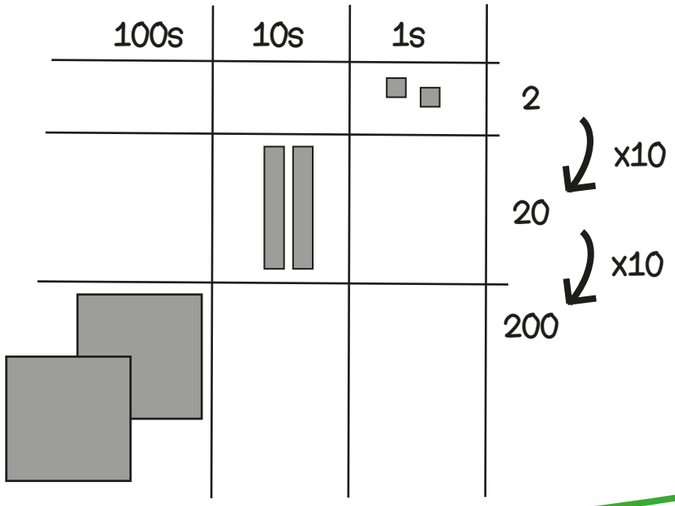
How shall I multiply?

Rapid recall of 2x, 5x, 10x (year 2) 3x, 4x, 8x (year 3) multiplication tables

Multiply by 10

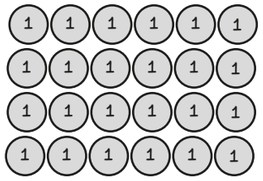


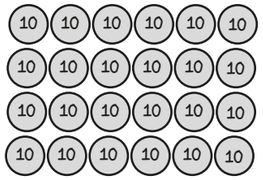
6 x 4 Use known facts and place value

40 is ten times greater than 4

6 x 4 = 24
60 x 4 = 240
6 x 40 = 240

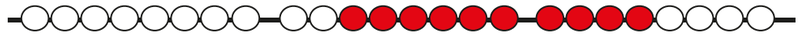
6 x 10 x 4
= 24 x 10

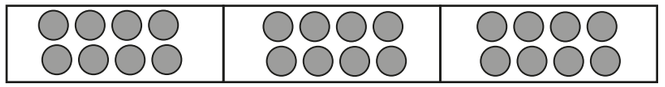




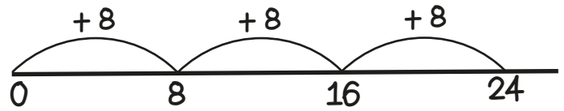
8 x 3 Repeated addition

8 + 8 + 8 =
3 + 3 + 3 + 3 + 3 + 3 + 3 + 3



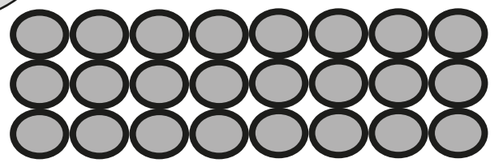


8	8	8



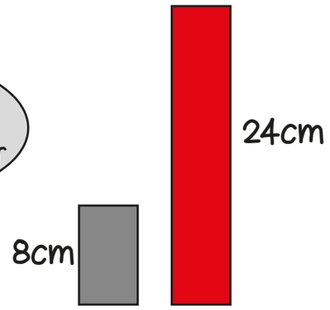
Arrays

If I know 3 x 8 then I know 8 x 3



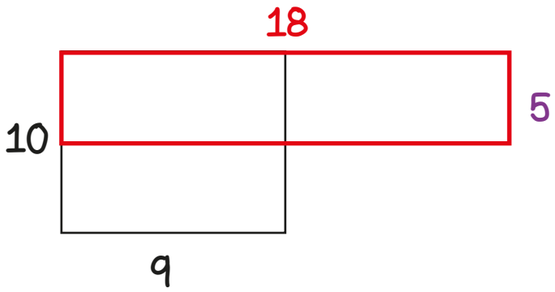
Scaling

The red tower is 3 times taller than the grey tower



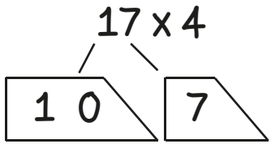
5 x 18 Double and halve

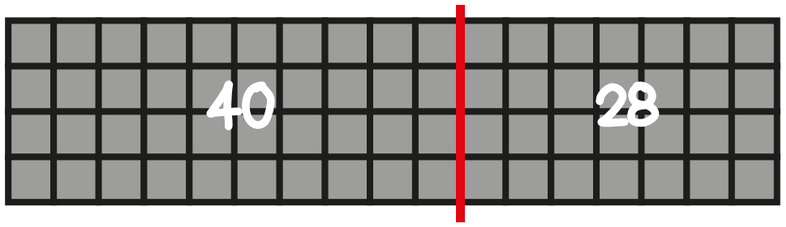
5 x 18
= 5 x 2 x 18 ÷ 2
= 10 x 9
= 90



17 x 4 Partition and recombine

10 x 4 + 7 x 4
40 + 28 = 68





17 x 4 Formal written method

	10	7
4	40	28

17
x 4
68
2

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How shall I divide?

Known facts:
Use 2x, 5x, 10x (year 2)
3x, 4x, 8x (year 3)
multiplication tables to derive division facts

24 ÷ 4
Use known facts and place value

240 is ten times greater than 24

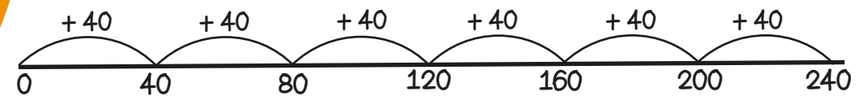
$24 \div 4 = 6$
$240 \div 40 = 6$
$240 \div 4 = 60$

24 biscuits shared between 4 people means they will get 6 biscuits each.
If there are 10 times as many people and 10 times as many biscuits, how many biscuits each now?

240 ÷ 40
Repeated addition

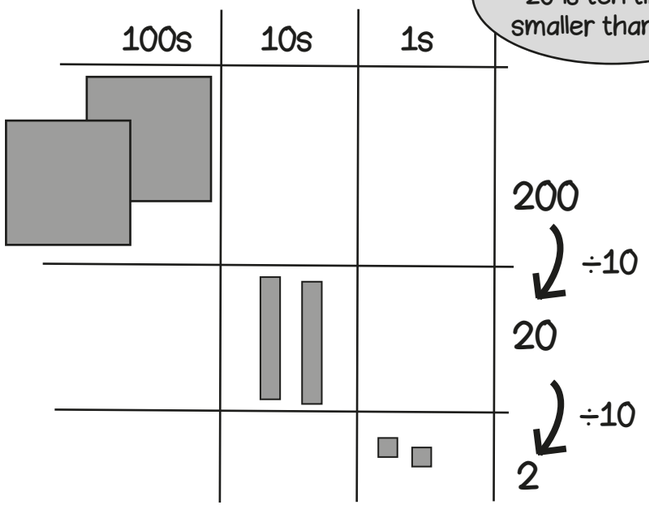
How many 40s are there in 240?

$240 \div 40 = 6$
How many steps of 40 make 240?



200 ÷ 10
Divide by 10

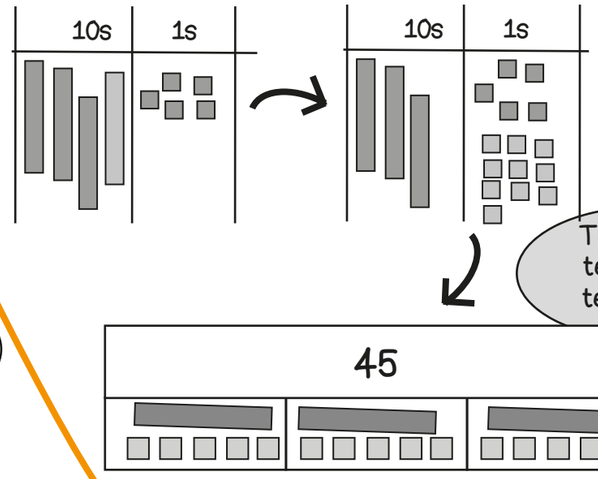
200 ÷ 10 = 20 so 20 is ten times smaller than 200



A tenth of ▮ is ■

A tenth of 1 is 1 tenth
so $1 \div 10 = \frac{1}{10}$

45 ÷ 3
Sharing equally



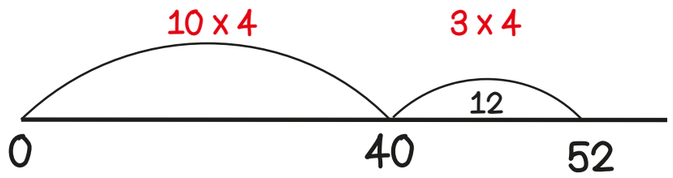
Ten for you, ten for you, ten for you...

Link to fractions

52 ÷ 4
Partition and recombine

ten lots and the rest

52 ÷ 4
40 12
÷ 4 ÷ 4
10 + 3 = 13



42 ÷ 6
Double and halve

If there are half as many biscuits and half as many people...

$42 \div 6 = 21 \div 3$

42					
7	7	7	7	7	7

21		
7	7	7

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How shall I add?

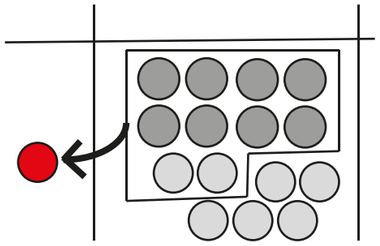
0.9 + 0.9, 74 + 26
Number facts
Single digit decimals
Doubles
Bonds of 100

I just knew it!

7 + 8
Use known facts

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

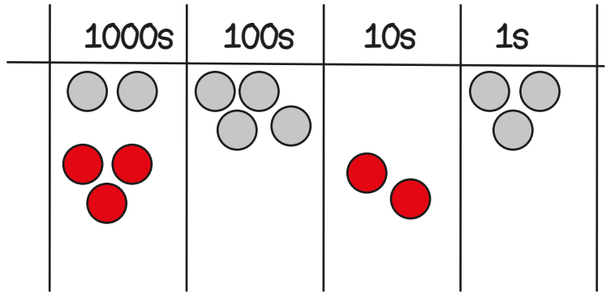
70 + 80 = 150
700 + 800 = 1,500



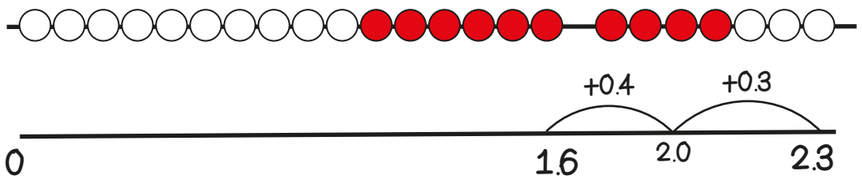
2,403 + 3,020
Use place value to add

If I know 2 + 3 = 5
then I know
2000 + 3000 = 5 000

I have noticed,
one number has no
hundreds or ones, the
other has no tens.



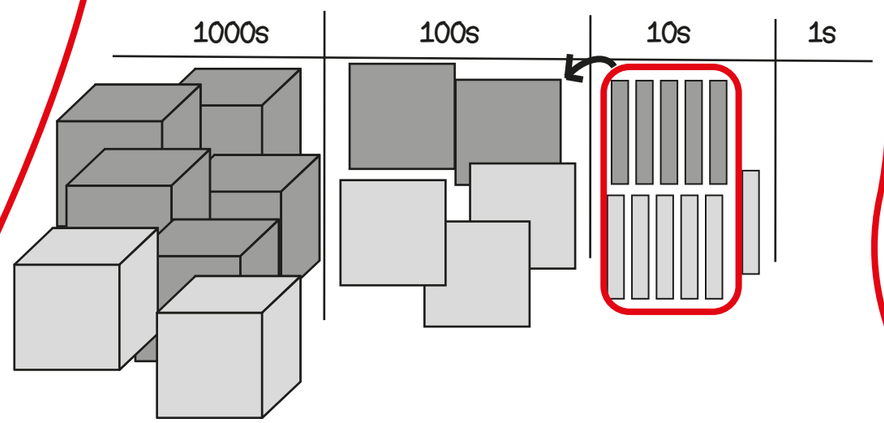
1.6 + 0.7
Bridge through boundaries
by counting in efficient steps



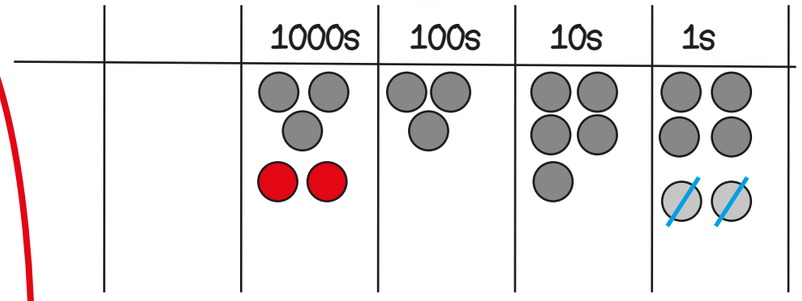
5,250 + 2,360
Partition and recombine

5000 + 200 + 50 + 2000 + 300 + 60

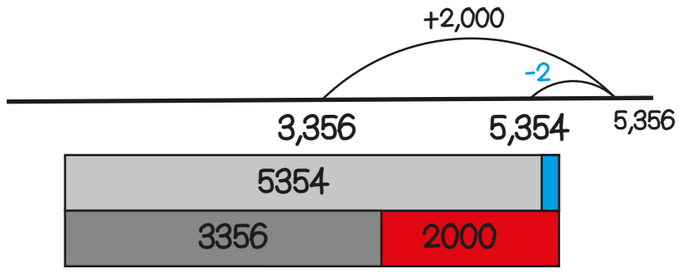
7000 + 500 + 110 = 7610



3,356 + 1,998
Round then adjust



Add 2,000 then take away 2



5,748 + 3,374
Formal written method

Exchange ten of these for one of those!

Regroup and rename

```
  5,748
+ 3,374
  9,122
  1 1 1
```

	1000s	100s	10s	1s

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How shall I subtract?

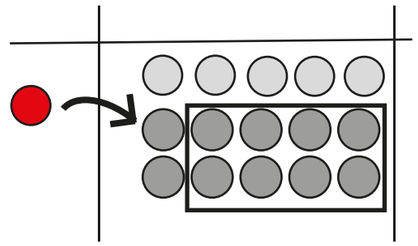
13 - 5, 1.8 - 0.8
Number facts
Single digit numbers
Halves
Wholes and tenths

I just knew it!

15 - 8 = 7
Use known facts

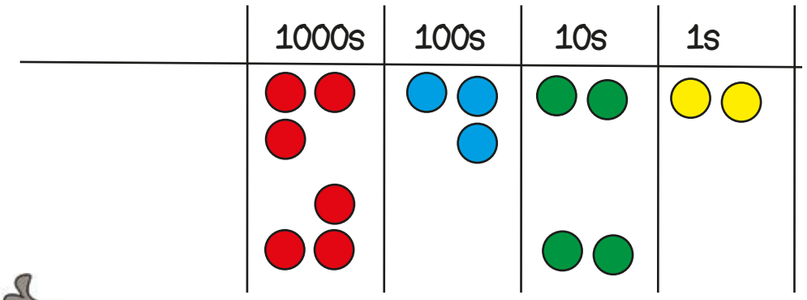
If I know 15 - 8 = 7 then I know 1.5 - 0.8 = 0.7

150 - 80 = 70
1500 - 800 = 700

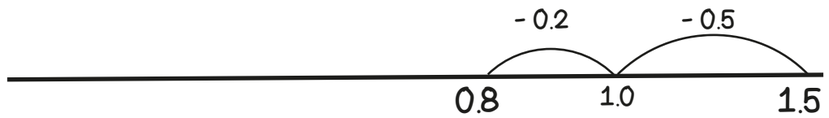


6,342 - 3,020
Use place value to subtract

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



1.5 - 0.7
Bridge through boundaries
by counting in efficient steps



5,352 - 2,136
Formal written method

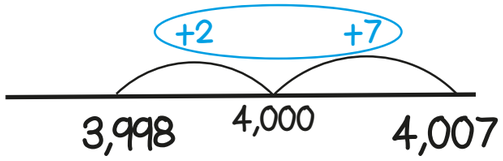
Exchange ten of these for one of those!

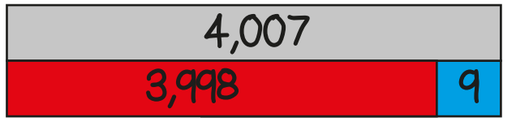
Regroup and rename

```
  4 1 4 1
  5,3 5 2
-  2,4 3 6
  -------
   2,9 1 6
```

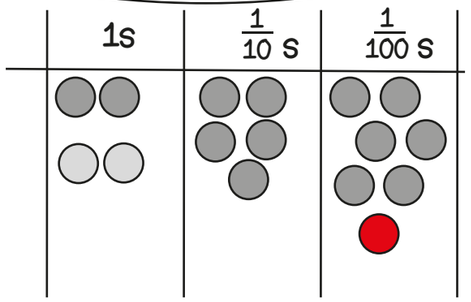
	1000s	100s	10s	1s

4007- 3998
Find the difference between two numbers

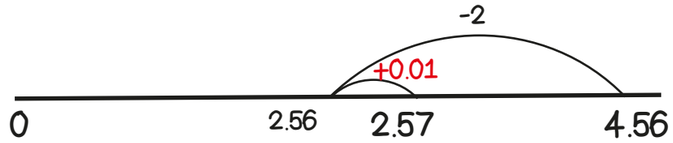




4.56 - 1.99
Round then adjust



Take away 2 then add one hundredth



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How shall I multiply?

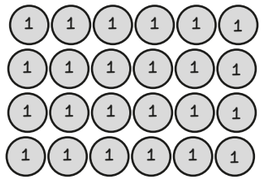
Known facts:
Rapid recall of all multiplication tables up to 12 x 12

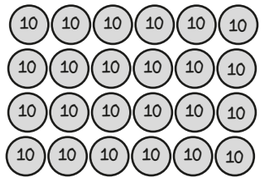
6 x 4
Use known facts and place value

40 is ten times greater than 4

6 x 4 = 24
60 x 4 = 240
60 x 40 = 2400

6 x 10 x 4 x 10
= 24 x 100

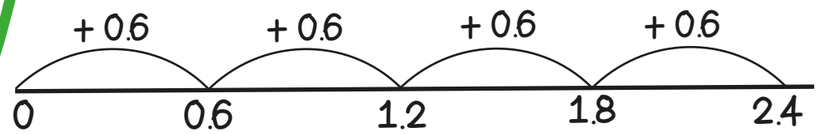




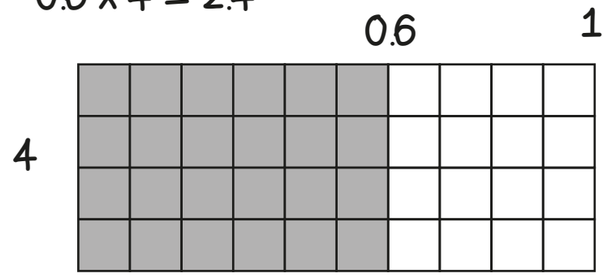
6 x 4
Use known facts and place value

0.6 is ten times smaller than 6

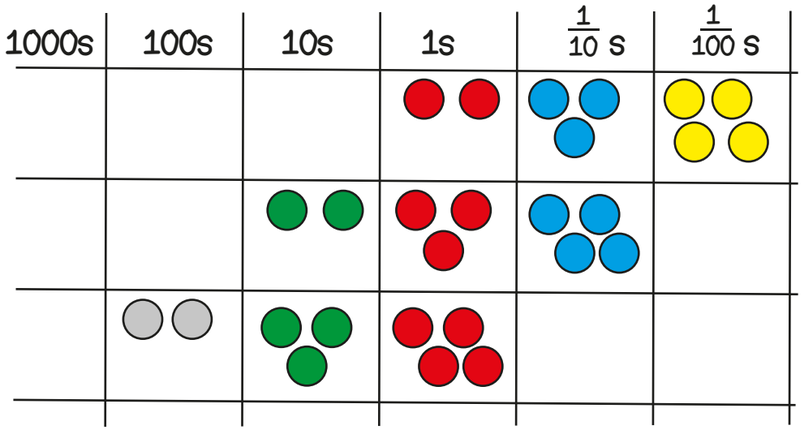
0.6 x 4 = 2.4
4 jumps of 0.6



0.6 x 4 = 24 tenths
0.6 x 4 = 2.4

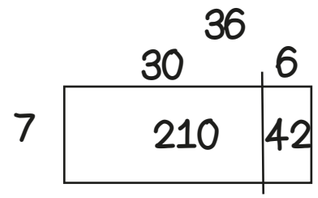


2.34 x 100
Multiply by 10, 100



7 x 36
Use the distributive law

7 x 36
= 7 x 30 + 7 x 6
= 210 + 42
= 252



236 x 7

200	30	6
x7	x7	x7

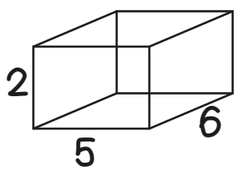
1400 + 210 + 42 = 1652

36 x 7
Formal written method

	30	6
7	210	42

36
x 7
252
4

45 x 6
Use factors and commutativity



2 x (5 x 6) = (2 x 5) x 6
2 x 30 = 10 x 6

Write as factors then re-order

45 x 6
= 5 x 9 x 6
= 5 x 6 x 9
= 30 x 9
= 270

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How shall I divide?

Known facts:
Use recall of all multiplication tables up to 12 x 12 to derive division facts

24 ÷ 4
Use known facts and place value

240 is ten times greater than 24

$24 \div 4 = 6$
$240 \div 40 = 6$
$2400 \div 400 = 6$

$2400 \div 400 = \frac{24 \times 100}{4 \times 100}$

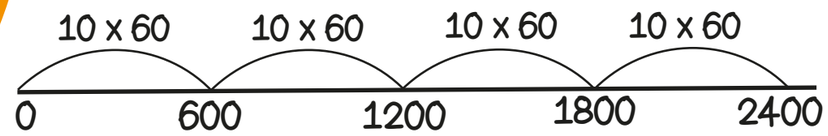
$\frac{24}{4} = 6$

24 biscuits shared between 4 people means they will get 6 biscuits each.
If there are 100 times as many people and 100 times as many biscuits, how many biscuits each now?

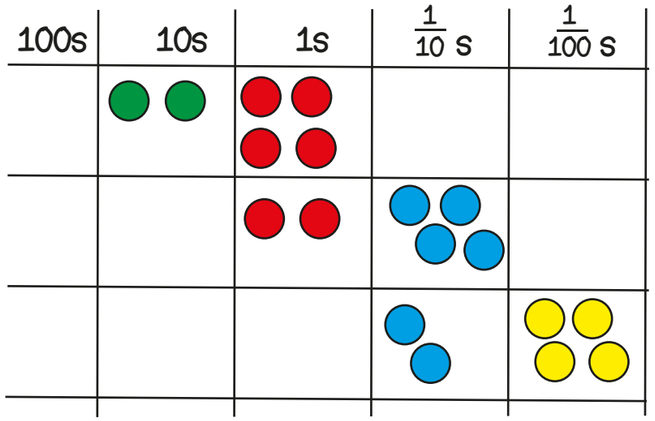
2400 ÷ 60
Use known facts and place value

60 is ten times greater than 6

$2400 \div 60 = 40$
How many steps of 60 make 2400?

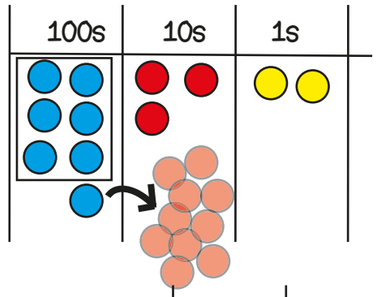


24 ÷ 100
Divide by 10, 100

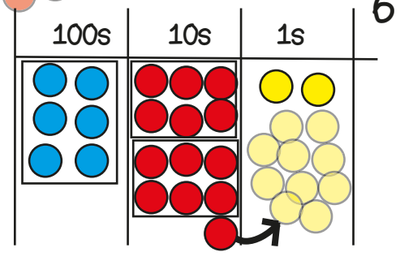


24
÷10
2.4
÷10
0.24
÷100

732 ÷ 6
Formal written method



$$\begin{array}{r} 1 \\ 6\,\overline{)\,7^{1}3\,2} \end{array}$$



$$\begin{array}{r} 1\,2\,2 \\ 6\,\overline{)\,7^{1}3^{1}2} \end{array}$$

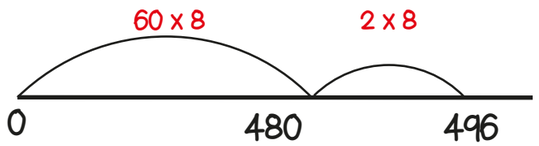
516 ÷ 12
Using factors

516 ÷ 3 ÷ 4

516											
172				172				172			
43	43	43	43								

496 ÷ 8
Partition and recombine

496 ÷ 8
480 16
÷ 8 ÷ 8
60 + 2 = 62



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How shall I add?

0.8 + 0.7, 45 + 45
Number facts
Single digit decimals
Doubles
Bonds of 1 and 100

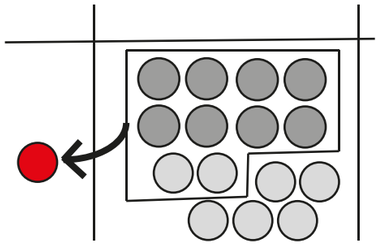
I just knew it!

Rapid fluency of 2 digit add 2 digit numbers

7 + 8
Use known facts

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

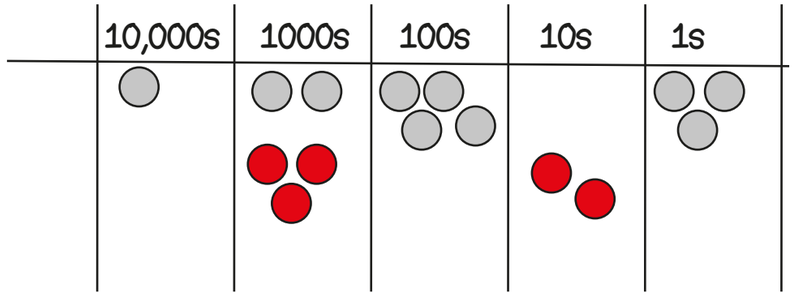
7,000 + 8,000 = 15,000
70,000 + 80,000 = 150,000
700,000 + 800,000 = 1,500,000



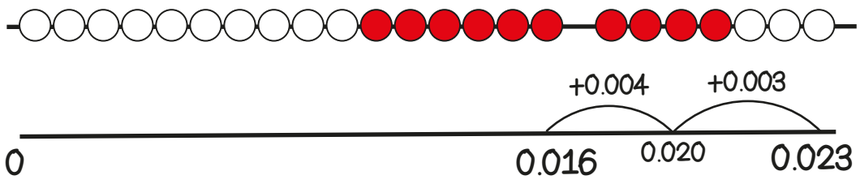
12,403 + 3,020
Use place value to add

If I know 2 + 3 = 5 then I know 2000 + 3000 = 5 000

I have noticed, one number has no hundreds or ones, the other has no tens.



0.016 + 0.007
Bridge through boundaries
by counting in efficient steps



25,748 + 46,374
Formal written method

Exchange ten of these for one of those!

Regroup and rename

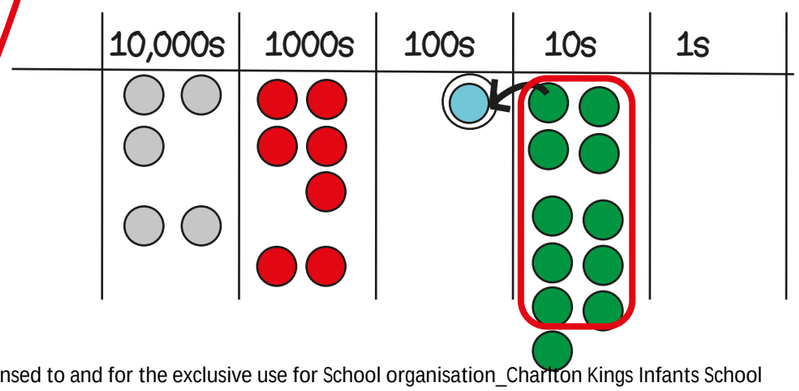
```
  25,748
+ 46,374
  72,122
  1 1 1 1
```

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

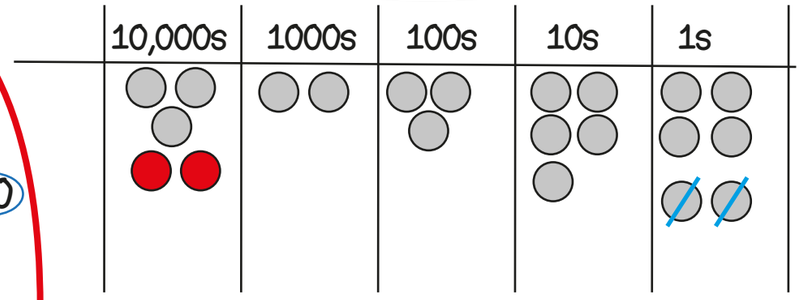
35,040 + 22,070
Partition and recombine

30,000 + 5,000 + 40 + 20,000 + 2,000 + 70

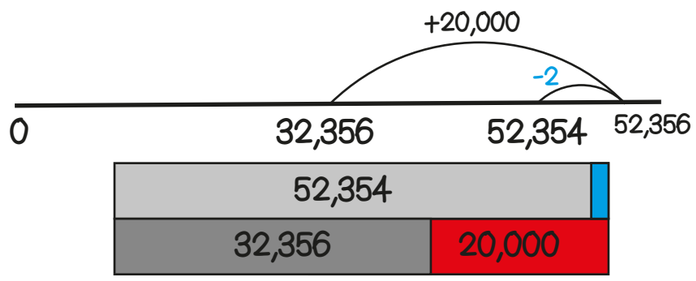
50,000 + 7,000 + 110 = 57,110



32,356 + 19,998
Round then adjust



Add 20,000 then subtract 2



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How shall I subtract?

9 - 4, 13 - 5, 18 - 9
Number facts
Single digit decimals
Halves
Subtract from 1 and 100

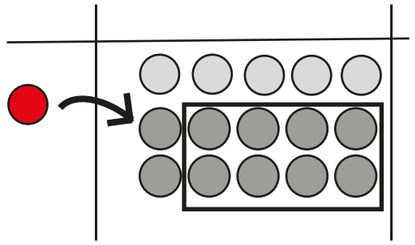
I just knew it!

Rapid fluency of 2 digit subtract 2 digit numbers

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



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

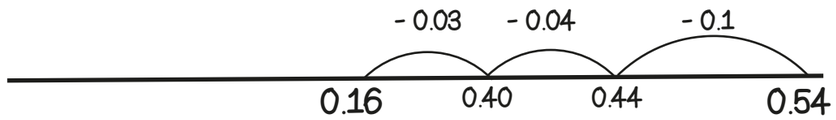
5 less than 12 is 7 Now it is easy to take away 3000

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.

0.54 - 0.17
Bridge through boundaries
by counting in efficient steps



45,748 - 26,374
Formal written method

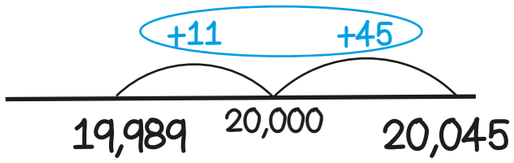
Exchange ten of these for one of those!

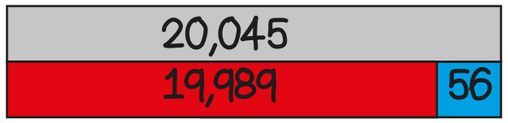
Regroup and rename

3 1 6 1
~~4~~5,~~7~~48
- 26,374
19,374

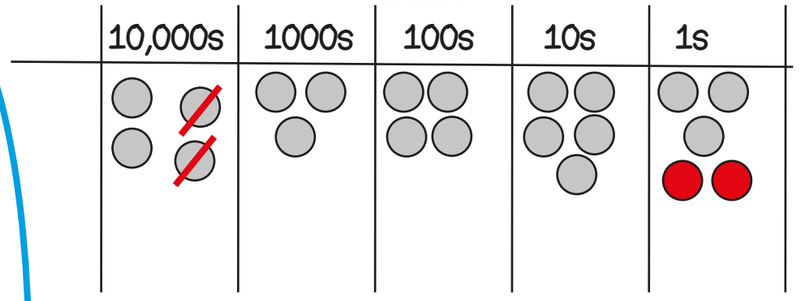
	10,000s	1000s	100s	10s	1s

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

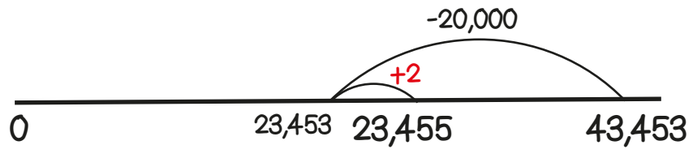




43,453 - 19,998
Round then adjust



Take away 20,000 then add 2



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How shall I multiply?

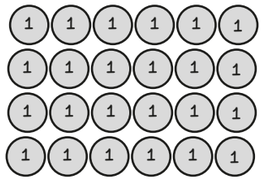
Known facts:
Rapid recall of all multiplication tables up to 12 x 12

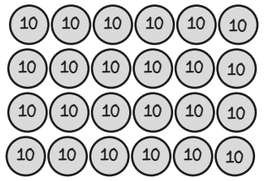
6 x 4
Use known facts and place value

40 is ten times greater than 4

6 x 4 = 24
60 x 4 = 240
60 x 40 = 2400

6 x 10 x 4 x 10
= 24 x 100

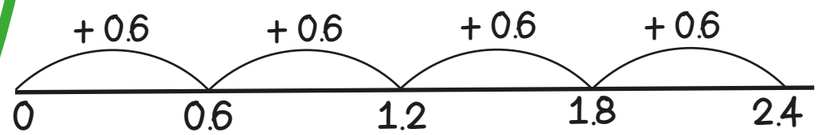




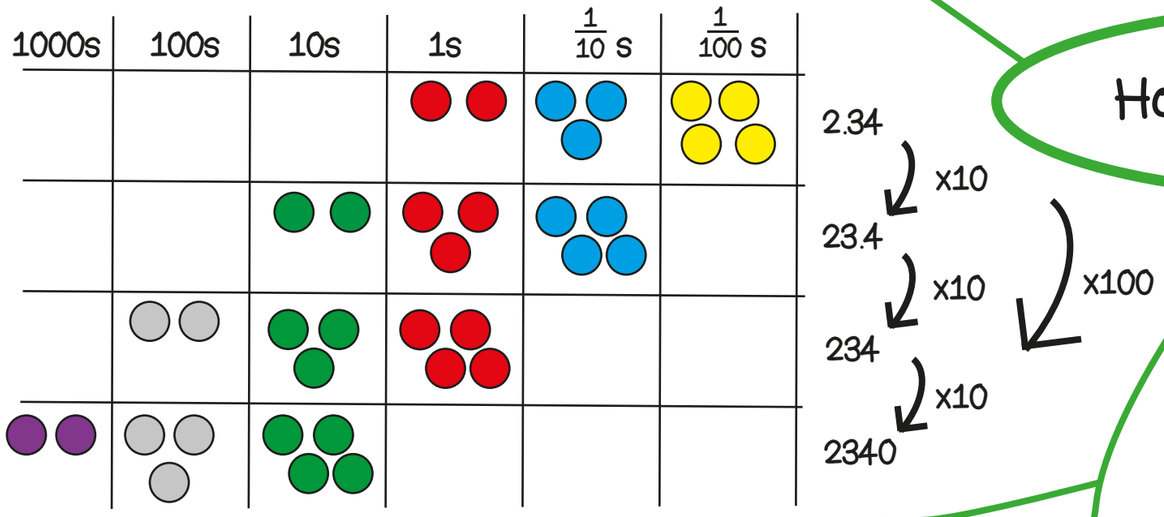
6 x 4
Use known facts and place value

0.6 is ten times smaller than 6

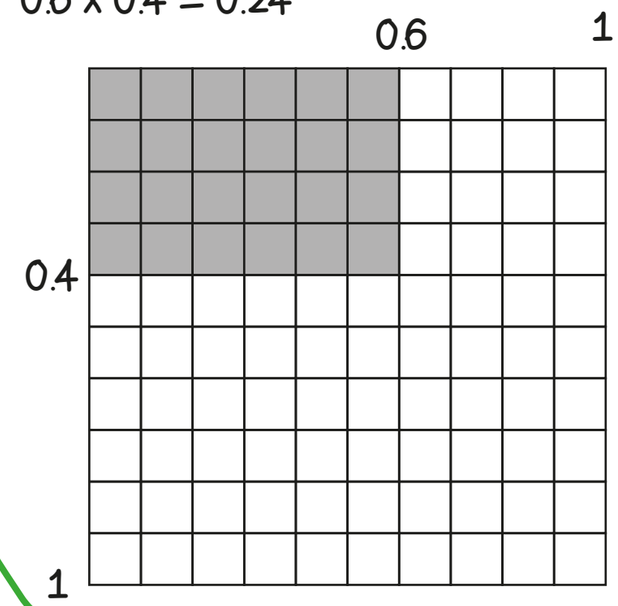
0.6 x 4 = 2.4
4 jumps of 0.6



2.34 x 1000
Multiply by 10, 100, 1000

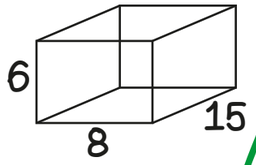


0.6 x 0.4
0.6 x 0.4 = 24 hundredths
0.6 x 0.4 = 0.24

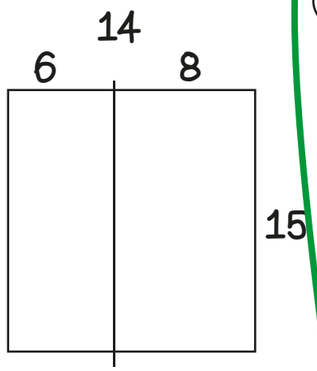


15 x 42
Using factors and distributive law

15 x 48
Factor pair
= 15 x 6 x 8
= 90 x 8
= 720



15 x 14
= 15 x 6 + 15 x 8
= 90 + 120
= 210



423 x 4
Partition and recombine

423 x 4

400	20	3
x4	x4	x4

1600 + 80 + 12 = 1692

427 x 38
Formal written method

	400	20	7
30	12,000	600	210
8	3,200	160	56

```
  427
x  38
 3416
12810
16226
```

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How shall I divide?

Known facts:
Use recall of all multiplication tables up to 12 x 12 to derive division facts

Include calcuations where remainders occur

24 ÷ 4
Use known facts and place value

24,000 is a thousand times greater than 24

$24 \div 4 = 6$
$240 \div 40 = 6$
$2400 \div 400 = 6$
$24{,}000 \div 4000 = 6$

24 biscuits shared between 4 people means they will get 6 biscuits each.
If there are 1000 times as many people and 1000 times as many biscuits, how many biscuits each now?

$$24{,}000 \div 400 = \frac{24 \times 1000}{4 \times 100}$$

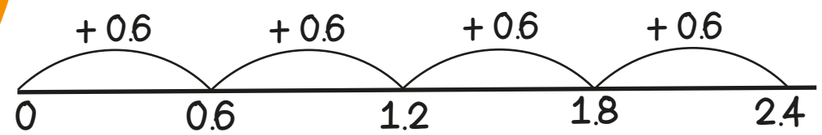
$$\frac{240}{4} = 60$$

2.4 ÷ 0.6
Use known facts and place value

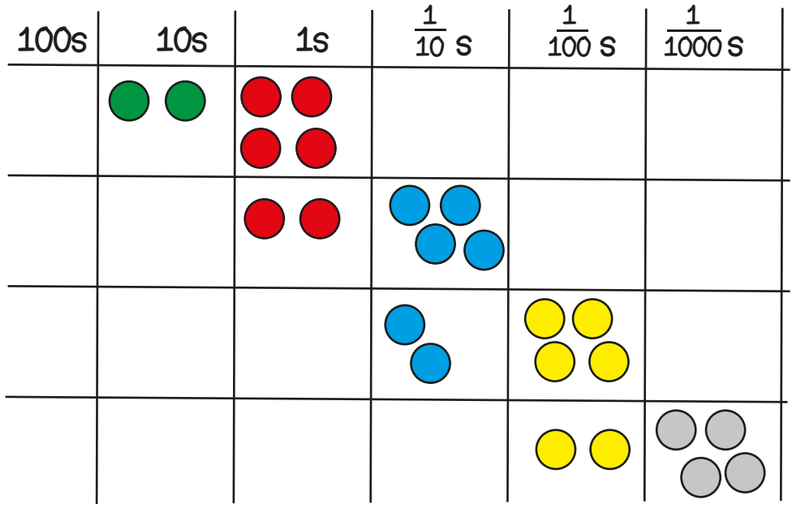
0.6 is ten times smaller than 6

$2.4 \div 0.6 = 4$

How many steps of 0.6 make 2.4?

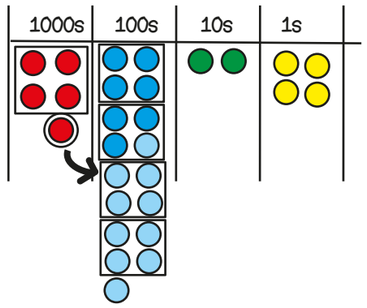


24 ÷ 1000
Divide by 10, 100, 1000

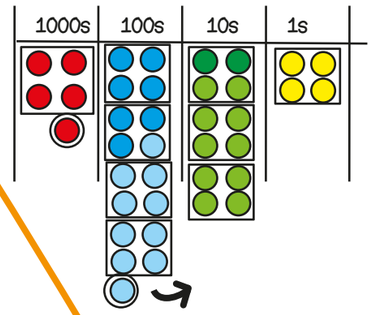


24
÷10
2.4
÷10
0.24
÷10
0.024
÷1000

5724 ÷ 4
Formal written method



$$\begin{array}{r} 1\,4 \\ 4\,\overline{)\,5^{1}7\,2\,4} \end{array}$$



$$\begin{array}{r} 1\,4\,3\,1 \\ 4\,\overline{)\,5^{1}7^{1}2\,4} \end{array}$$

1512 ÷ 24
Using factors

1512 ÷ 6 ÷ 4

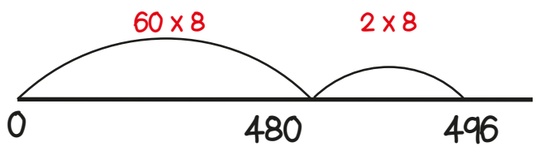
1512															
252				252				252				252				252				252			
63	63	63	63																				

496 ÷ 8
Partition and recombine

496 ÷ 8

480 ÷ 8 = 60
16 ÷ 8 = 2

60 + 2 = 62



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How shall I add?

44 + 56, 27 + 27
Number facts
Single digit decimals
Doubles
Bonds of 1 and 100

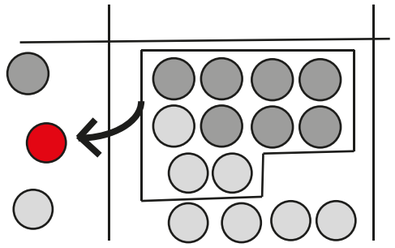
I just knew it!

Rapid fluency of 2 digit add 2 digit numbers

17 + 17
Use known facts

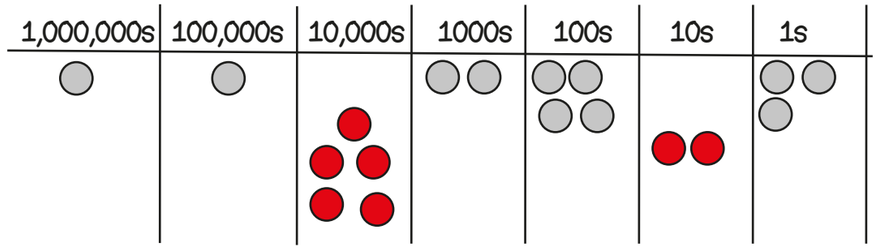
If I know 17 + 17 = 34 then I know 1.7 + 1.7 = 3.4

17,000 + 17,000 = 34,000
170,000 + 170,000 = 340,000
1,700,000 + 1,700,000 = 3,400,000

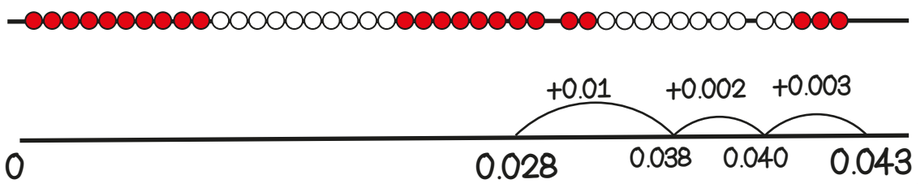


1,102,403 + 50,020
Use place value to add

I have noticed, one number has no hundreds or ones, the other has no tens.



0.028 + 0.015
Bridge through boundaries
by counting in efficient steps



325,748 + 246,374
Formal written method

Exchange ten of these for one of those!

Regroup and rename

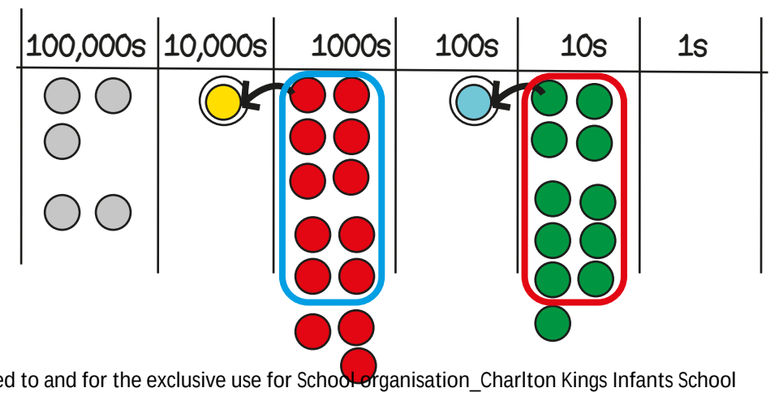
```
  325,748
+ 246,374
  572,122
  1 1 1 1
```

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

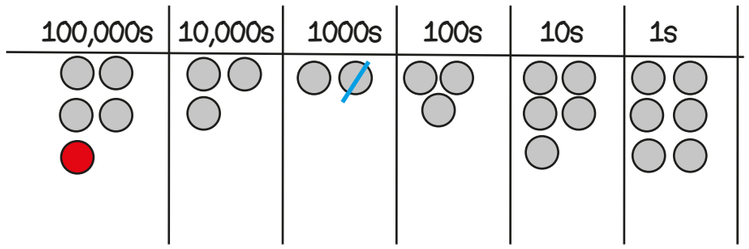
307,040 + 206,070
Partition and recombine

300,000 + 7,000 + 40 + 200,000 + 6,000 + 70

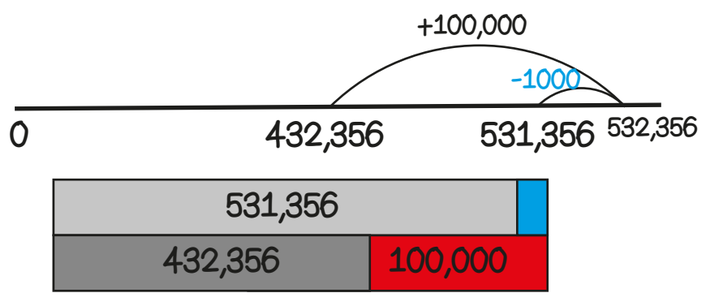
500,000 + 13,000 + 110 = 513,110



432,356 + 99,000
Round then adjust



Add 100,000 then take away 1,000



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How shall I subtract?

0.9 - 0.4, 100 - 65
Number facts
Single digit decimals
Halves
Bonds of 1 and 100

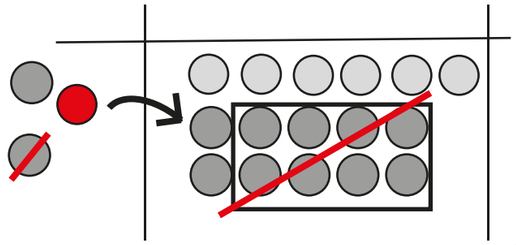
I just knew it!

Rapid fluency of 2 digit subtract 2 digit numbers

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



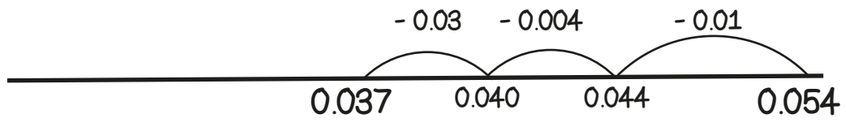
400,032 - 30,005
Use place value to subtract

5 less than 32 is 27

400,000 = 4 hundreds of thousands
or 400 thousands
400 - 30 = 370 so 400,000 - 3,000 = 370,000

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

0.054 - 0.017
Bridge through boundaries
by counting in efficient steps



445,748 - 126,374
Formal written method

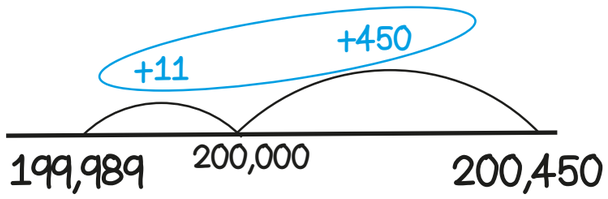
Exchange ten of these for one of those!

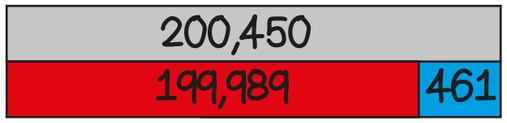
Regroup and rename

```
  3 1 6 1
  4~~4~~,7~~4~~8
+ 1 2 6,3 7 4
  3 1 9,3 7 4
```

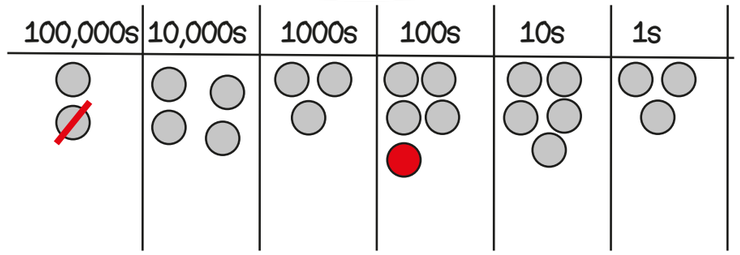
100,000s	10,000s	1000s	100s	10s	1s

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

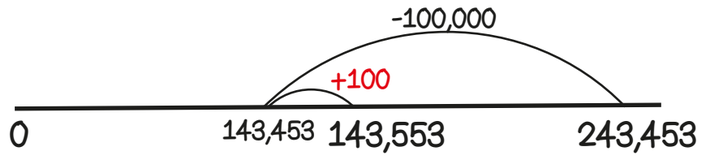




243,453 - 99,900
Round then adjust



Take away 100,000 then add 100



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How shall I multiply?

Known facts:
Rapid recall of all multiplication tables up to 12 x 12

6 x 4
Use known facts and place value

40 is ten times greater than 4

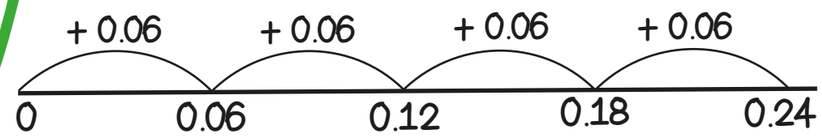
60 x 40 = 2400
600 x 400 = 240,000
6000 x 4000 = 24,000,000

6 x 10 x 4 x 10
= 24 x 100

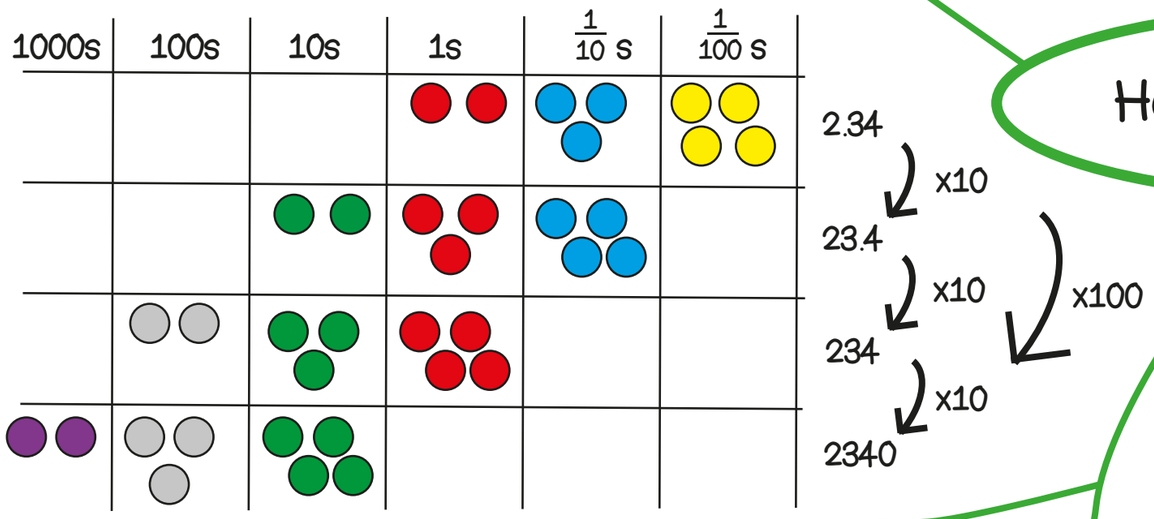
6 x 4
Use known facts and place value

0.6 is ten times smaller than 6

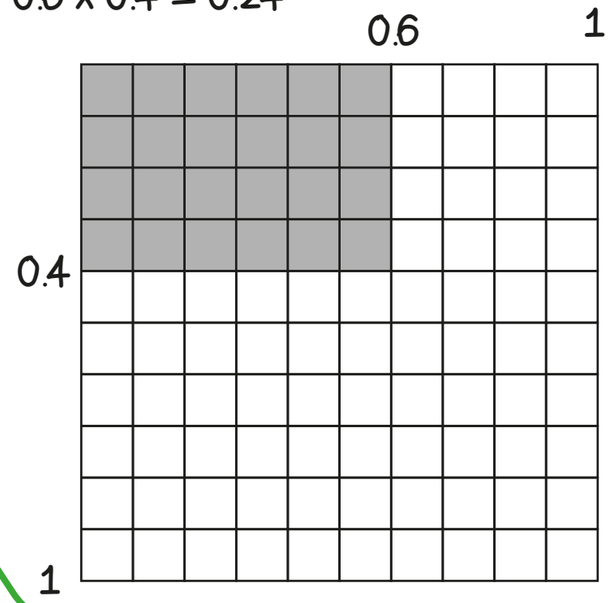
0.06 x 4 = 0.24
4 jumps of 0.06



2.34 x 1000
Multiply by 10, 100, 1000

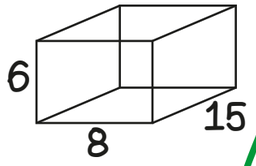


0.6 x 0.4 = 24 hundredths
0.6 x 0.4 = 0.24

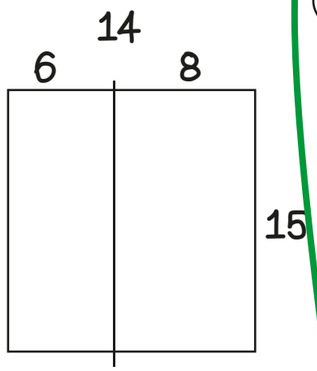


15 x 42
Using factors and distributive law

15 x 48
Factor pair
= 15 x 6 x 8
= 90 x 8
= 720



15 x 14
= 15 x 6 + 15 x 8
= 90 + 120
= 210



4203 x 4
Partition and recombine

4203 x 4

4 0 0 0	2 0 0	3
x4	x4	x4

16,000 + 800 + 12 = 16,812

2427 x 38
Formal written method

```
 2427
 x  38
 19416
 72810
 92226
```

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How shall I divide?

Known facts:
Use recall of all multiplication tables up to 12 x 12 to derive division facts

Include calcuations where remainders occur

24 ÷ 4
Use known facts and place value

240 is ten times greater than 24

240 ÷ 40 = 6
2400 ÷ 400 = 6
24,000 ÷ 4000 = 6
240,000 ÷ 40,000 = 6
2,400,000 ÷ 400,000 = 6

24 biscuits shared between 4 people means they will get 6 biscuits each.
If there are 10 times as many people and 10 times as many biscuits, how many biscuits each now?

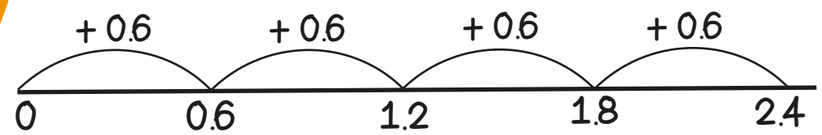
$$240{,}000 \div 400 = \frac{24 \times 10{,}000}{4 \times 100}$$

$$\frac{2400}{4} = 600$$

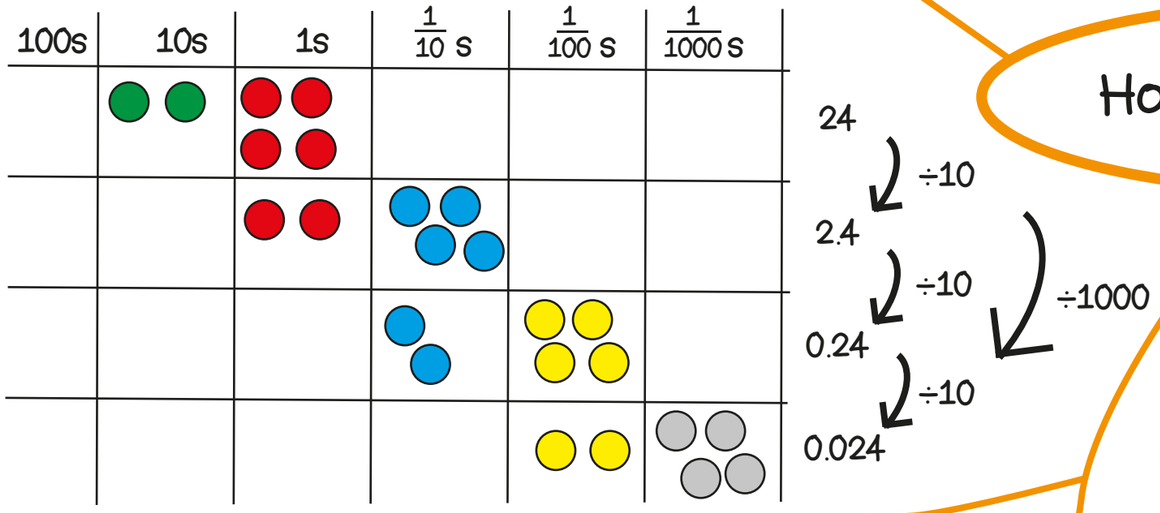
2.4 ÷ 0.6
Use known facts and place value

0.6 is ten times smaller than 6

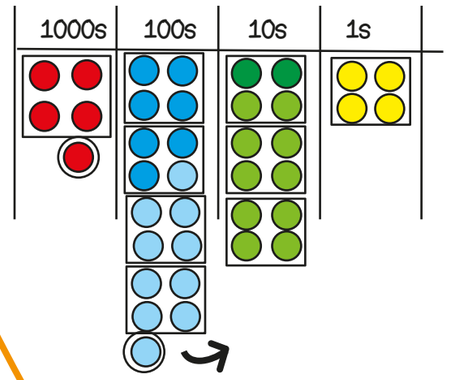
2.4 ÷ 0.6 = 4
How many steps of 0.6 make 2.4?



24 ÷ 1000
Divide by 10, 100, 1000



7182 ÷ 21
Formal written method




```
     1 4 3 1
4 | 5¹7¹2 4
```

```
      3 4 2
21 | 7 1 8 2
     6 3
       8 8
       8 4
         4 2
         4 2
           0
```

1512 ÷ 24
Using factors

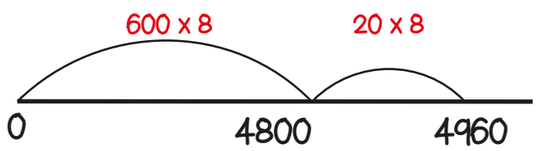
1512 ÷ 6 ÷ 4

1512															
252				252				252				252				252				252				252			
63	63	63	63																								

4960 ÷ 8
Partition and recombine

4960 ÷ 8

4800 ÷ 8 = 600
160 ÷ 8 = 20
600 + 20 = 620



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