4

How shall I add?

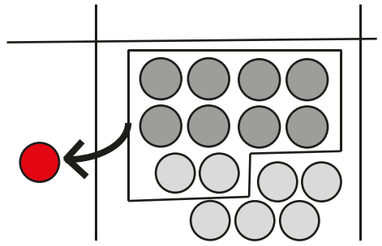
0.9 + 0.9, 74 + 26
Number facts
Single digit decimals
Doubles
Bonds of 100

I just knew it!

7 + 8
Use known facts

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

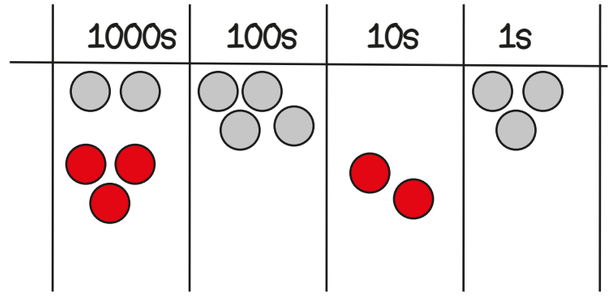
70 + 80 = 150
700 + 800 = 1,500



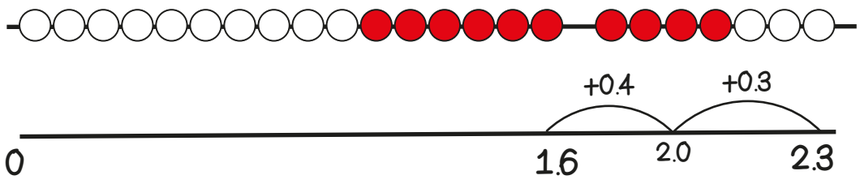
2,403 + 3,020
Use place value to add

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

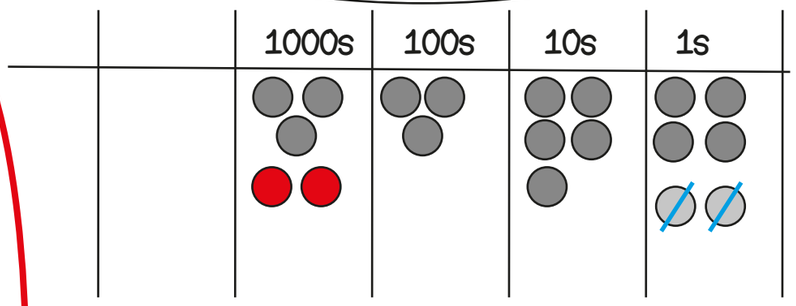
I have noticed, one number has no hundreds or ones, the other has no tens.



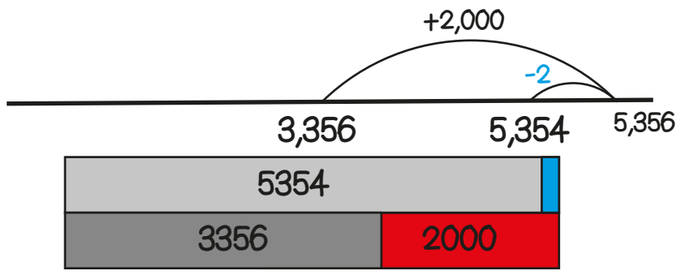
1.6 + 0.7
Bridge through boundaries
by counting in efficient steps



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

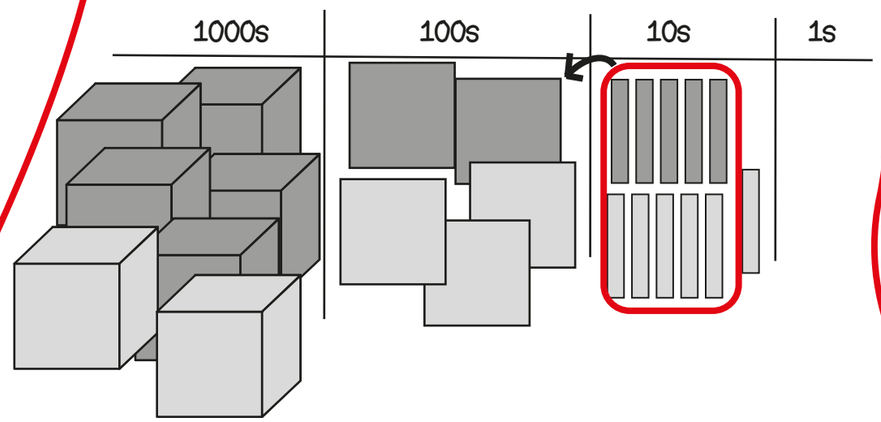
$$\begin{array}{r} 5{,}748 \\ +\ 3{,}374 \\ \hline 9{,}122 \\ \hline 1\ 1\ 1 \end{array}$$

1000s	100s	10s	1s

5,250 + 2,360
Partition and recombine

5000 + 200 + 50 + 2000 + 300 + 60

7000 + 500 + 110 = 7610



CanDoMaths

4

How shall I subtract?

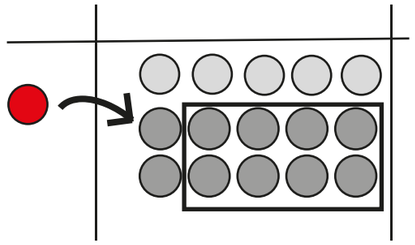
13 - 5, 1.8 - 0.8
Number facts
Single digit numbers
Halves
Wholes and tenths

I just knew it!

15 - 8 = 7
Use known facts

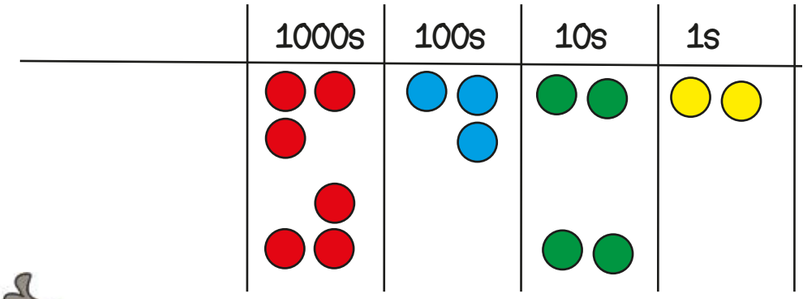
If I know 15 - 8 = 7
then I know
1.5 - 0.8 = 0.7

150 - 80 = 70
1500 - 800 = 700

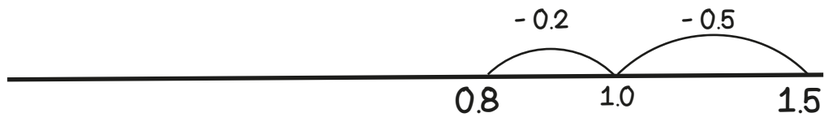


6,342 - 3,020
Use place value to subtract

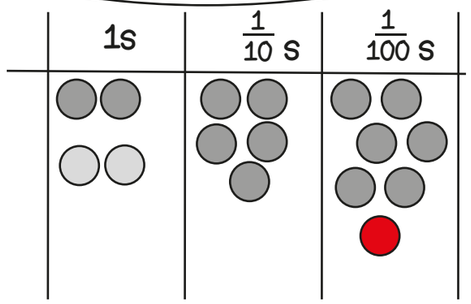
By using place value counters it is easy to see how to take away



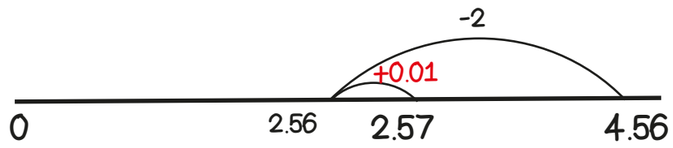
1.5 - 0.7
Bridge through boundaries
by counting in efficient steps



4.56 - 1.99
Round then adjust



Take away 2 then add one hundredth



5,352 - 2,136
Formal written method

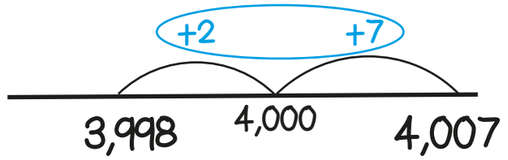
Exchange ten of these for one of those!

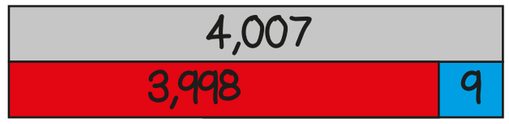
Regroup and rename

4 1 4 1
5,352
- 2,436
2,916

1000s	100s	10s	1s

4007- 3998
Find the difference between two numbers





CanDoMaths

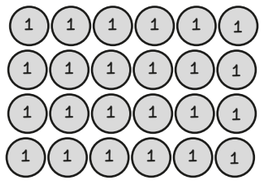
How shall I multiply?

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

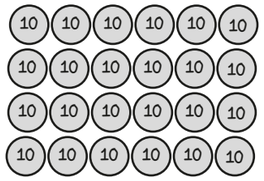
6 x 4
Use known facts and place value

40 is ten times greater than 4

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



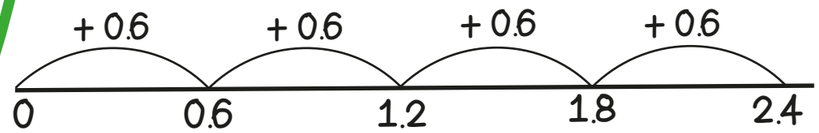
6 x 10 x 4 x 10
= 24 x 100



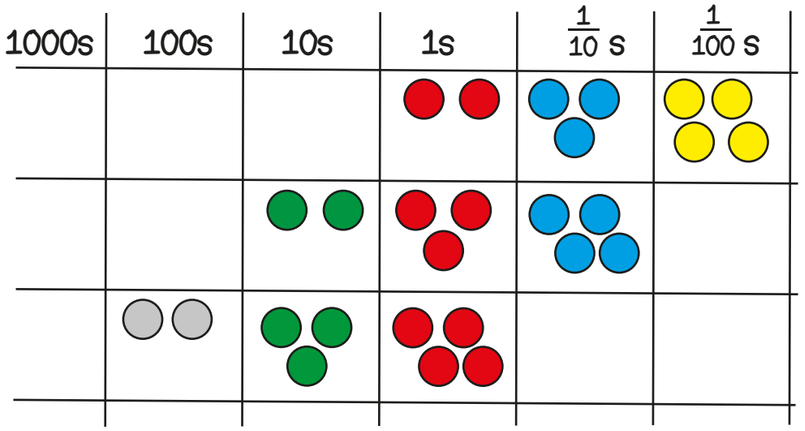
6 x 4
Use known facts and place value

0.6 is ten times smaller than 6

0.6 x 4 = 2.4
4 jumps of 0.6

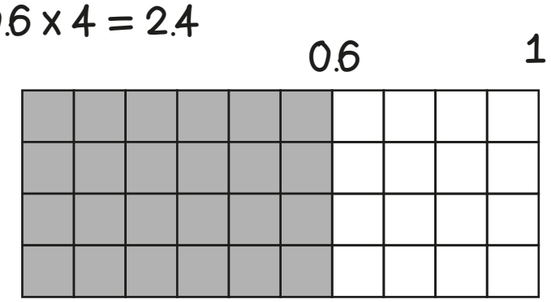


2.34 x 100
Multiply by 10, 100



2.34
x10
23.4
x10
234
x100

0.6 x 4 = 24 tenths
0.6 x 4 = 2.4



7 x 36
Use the distributive law

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

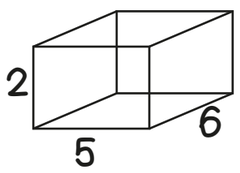
7	36
30	6
210	42

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

236 x 7

200	30	6
x7	x7	x7

1400 + 210 + 42 = 1652

CanDoMaths

4

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

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

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?

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

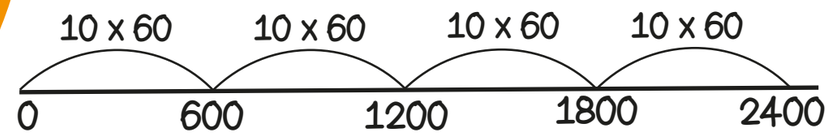
$$\frac{24}{4} = 6$$

2400 ÷ 60
Use known facts and place value

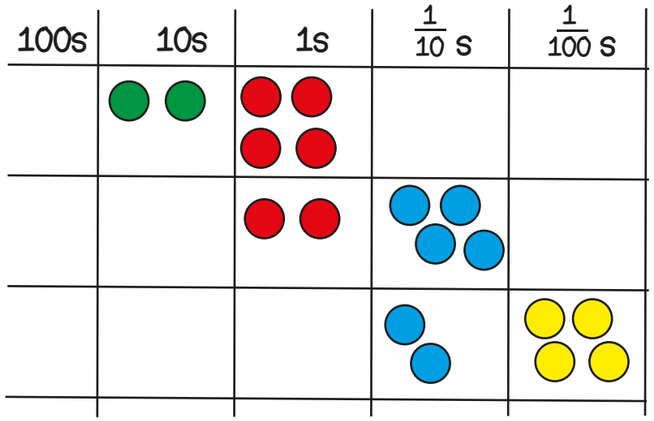
60 is ten times greater than 6

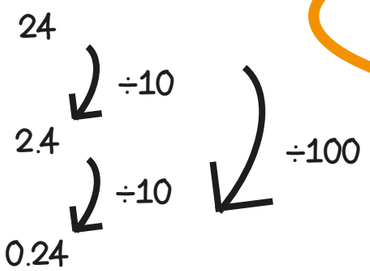
$2400 \div 60 = 40$

How many steps of 60 make 2400?

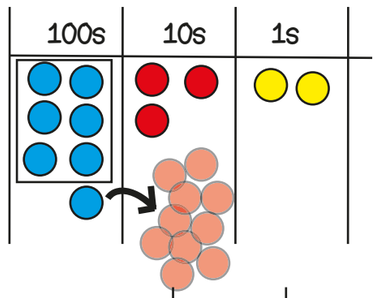


24 ÷ 100
Divide by 10, 100

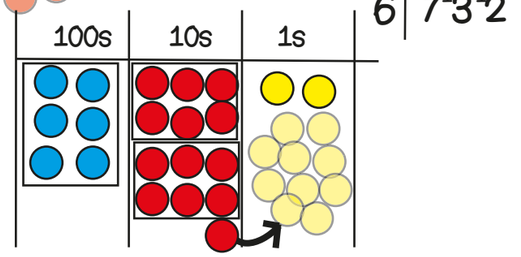




732 ÷ 6
Formal written method



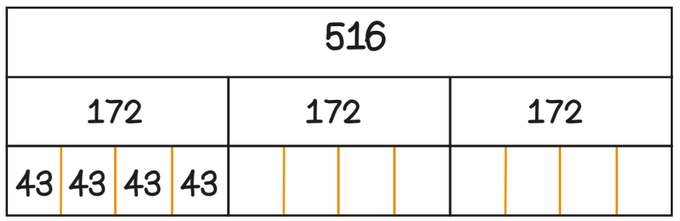
$$6 \overline{)7^{1}3\,2}\quad 1$$



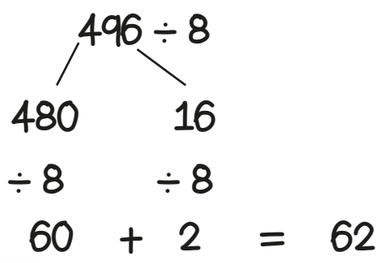
$$6 \overline{)7^{1}3^{1}2}\quad 1\,2\,2$$

516 ÷ 12
Using factors

$516 \div 3 \div 4$



496 ÷ 8
Partition and recombine



CanDoMaths