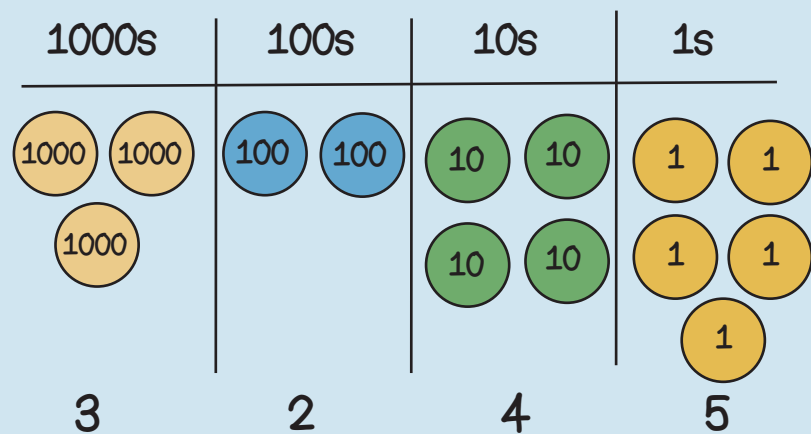




three thousand, two hundred and forty-five
3 thousands, 2 hundreds, 4 tens and 5 ones

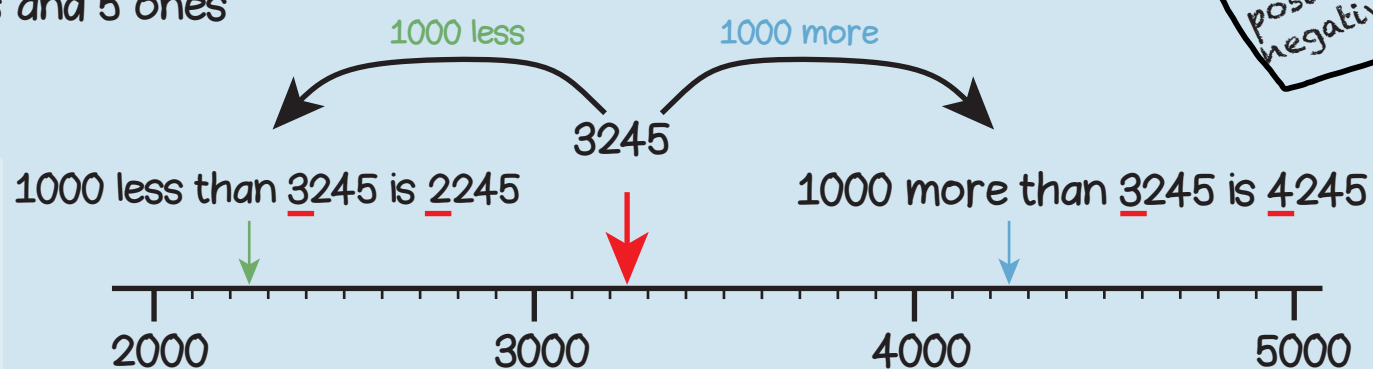
In order from smallest to largest

2987, 5894, 6080

4261, 4406, 4540

Stop and look.
What do you notice?

thousands
digit
round
multiple
positive
negative



5 or more - round up
4 or less - round down

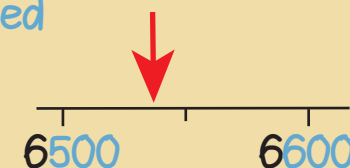
Round to the nearest ten

6538 → 6540



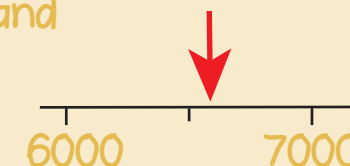
Round to the nearest hundred

6538 → 6500



Round to the nearest thousand

6538 → 7000



Year 4 Term 1



Equilateral Triangles
3 equal sides

trapezium
parallelogram
rhombus
kite
adjacent
equilateral
scalene
isosceles

Quadrilaterals are shapes with
4 straight sides

Trapezium - exactly
one pair of parallel sides



parallelogram - opposite
sides parallel

rectangles - 4 right angles

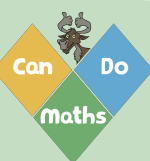
rhombus - 4 equal sides

squares

Kites - 2 pairs of equal
adjacent sides



Scalene Triangles
all sides different



You CanDo all the multiplication facts of 6.

0	x 6	= 0	= 6 x 0
1	x 6	= 6	= 6 x 1
2	x 6	= 12	= 6 x 2
3	x 6	= 18	= 6 x 3
4	x 6	= 24	= 6 x 4
5	x 6	= 30	= 6 x 5
6	x 6	= 36	= 6 x 6
7	x 6	= 42	= 6 x 7
8	x 6	= 48	= 6 x 8
9	x 6	= 54	= 6 x 9
10	x 6	= 60	= 6 x 10
11	x 6	= 66	= 6 x 11
12	x 6	= 72	= 6 x 12

Can Do Tables

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If I know... then I also know...

The digit sum of multiples of 6 is 3, 6 or 9

All multiples of 6 are even numbers.

You CanDo all the multiplication facts of 9.

0	x 9	= 0	= 9 x 0
1	x 9	= 9	= 9 x 1
2	x 9	= 18	= 9 x 2
3	x 9	= 27	= 9 x 3
4	x 9	= 36	= 9 x 4
5	x 9	= 45	= 9 x 5
6	x 9	= 54	= 9 x 6
7	x 9	= 63	= 9 x 7
8	x 9	= 72	= 9 x 8
9	x 9	= 81	= 9 x 9
10	x 9	= 90	= 9 x 10
11	x 9	= 99	= 9 x 11
12	x 9	= 108	= 9 x 12

Can Do Tables

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The digit sum of multiples of 9 is 9

An odd number multiplied by 9 gives an odd product.

You CanDo all the multiplication facts of 7.

0	x 7	= 0	= 7 x 0
1	x 7	= 7	= 7 x 1
2	x 7	= 14	= 7 x 2
3	x 7	= 21	= 7 x 3
4	x 7	= 28	= 7 x 4
5	x 7	= 35	= 7 x 5
6	x 7	= 42	= 7 x 6
7	x 7	= 49	= 7 x 7
8	x 7	= 56	= 7 x 8
9	x 7	= 63	= 7 x 9
10	x 7	= 70	= 7 x 10
11	x 7	= 77	= 7 x 11
12	x 7	= 84	= 7 x 12

Can Do Tables

www.buzzardpublishing.com

An odd number multiplied by 7 gives an odd product.

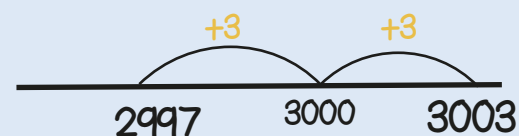
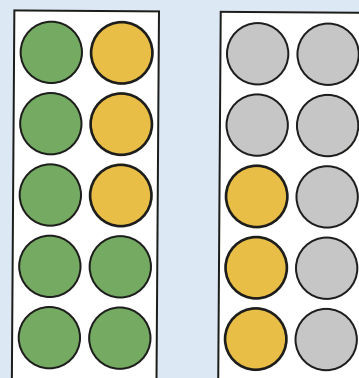
An even number multiplied by 7 gives an even product.

$64 \times 0 = 0$
The product of a number and zero is zero.

$64 \times 1 = 64$
The product of a number and 1 is the number itself.

$64 \div 1 = 64$
The quotient when dividing a number by 1 is the number itself.

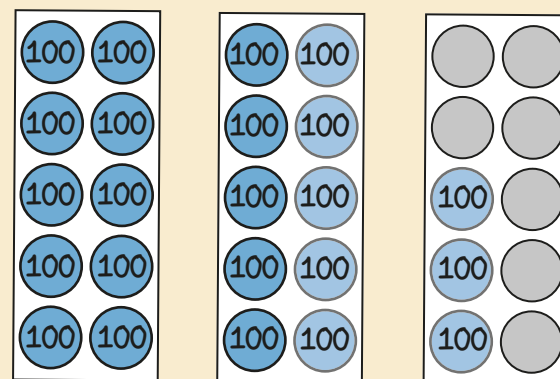
$2997 + 6$
Bridging boundaries



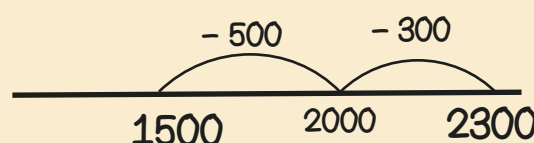
If I know $7 + 6 = 13$ then...

Year 4 Term 2

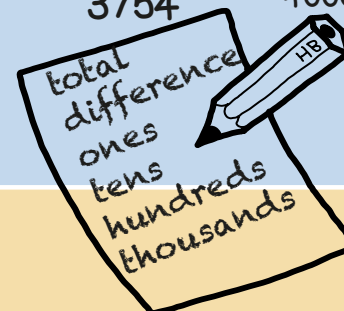
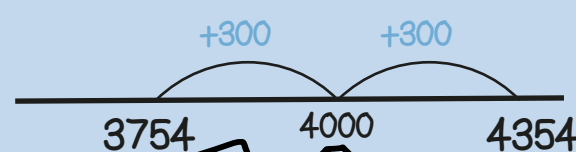
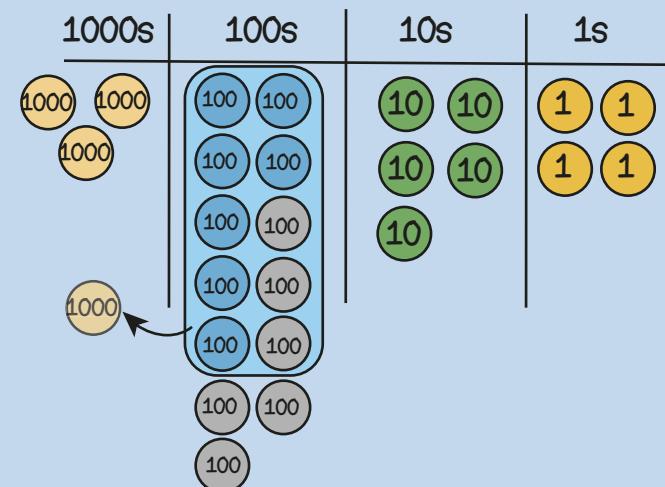
$2300 - 800$
Bridging boundaries by counting back in efficient steps



$$2300 - 300 - 500 = 1500$$



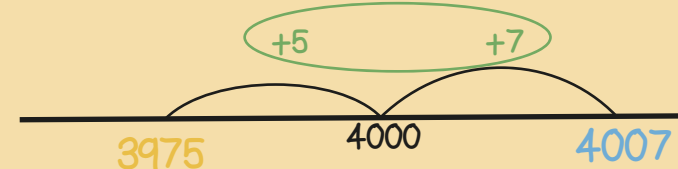
$3754 + 600$
Add multiples of ten and a hundred



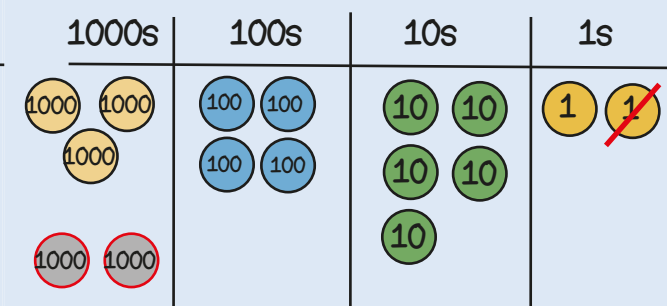
$3995 - 4007$
Find the difference between two numbers



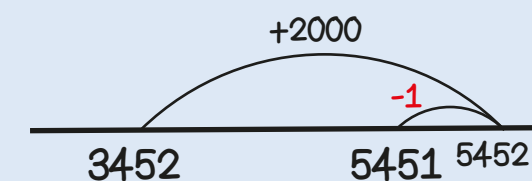
Count on 5 from 3995 to 4000, then 7 more so the difference between them is $5 + 7 = 12$



$3452 + 1999$
Round then adjust

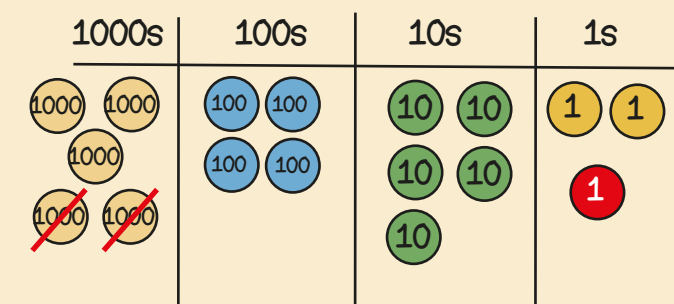


Add 2000 then subtract 1

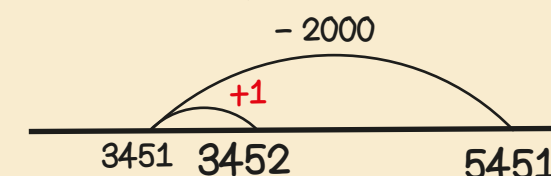


Stop and Look!
What do you notice?
What's the most efficient way?

$5451 - 1999$
Round then adjust



Take away 2000 then add 1



You CanDo all the multiplication facts of 11.

0	x 11	= 0	= 11 x 0
1	x 11	= 11	= 11 x 1
2	x 11	= 22	= 11 x 2
3	x 11	= 33	= 11 x 3
4	x 11	= 44	= 11 x 4
5	x 11	= 55	= 11 x 5
6	x 11	= 66	= 11 x 6
7	x 11	= 77	= 11 x 7
8	x 11	= 88	= 11 x 8
9	x 11	= 99	= 11 x 9
10	x 11	= 110	= 11 x 10
11	x 11	= 121	= 11 x 11
12	x 11	= 132	= 11 x 12

Can Do Tables

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If I know... then I also know...

If the digits are the same then a 2-digit number is divisible by 11

An odd number multiplied by 11 gives an odd product.

You CanDo all the multiplication facts of 12.

0	x 12	= 0	= 12 x 0
1	x 12	= 12	= 12 x 1
2	x 12	= 24	= 12 x 2
3	x 12	= 36	= 12 x 3
4	x 12	= 48	= 12 x 4
5	x 12	= 60	= 12 x 5
6	x 12	= 72	= 12 x 6
7	x 12	= 84	= 12 x 7
8	x 12	= 96	= 12 x 8
9	x 12	= 108	= 12 x 9
10	x 12	= 120	= 12 x 10
11	x 12	= 132	= 12 x 11
12	x 12	= 144	= 12 x 12

Can Do Tables

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A number is divisible by 12 if it is divisible by 3 and 4

All multiples of 12 are even numbers.



$$12 \times 6 = 72$$

$$72 = 12 \times 6$$

$$72 \div 12 = 6$$

$$6 = 72 \div 12$$

$$6 \times 12 = 72$$

$$72 = 6 \times 12$$

$$72 \div 6 = 12$$

$$12 = 72 \div 6$$

If I know... then I also know...

$$5 \times 2 \times 6 = 60 = 6 \times 2 \times 5$$

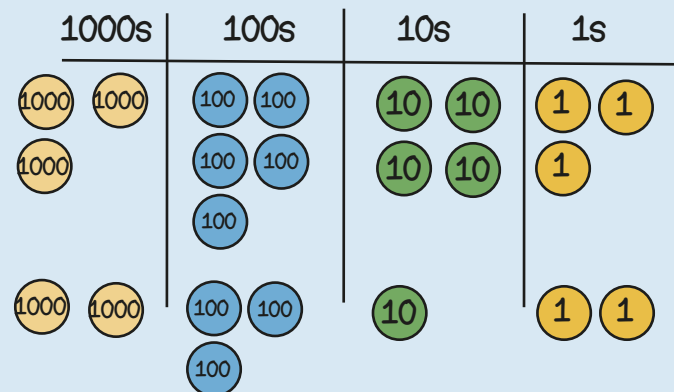
$$5 \times 2 \times 6 = 10 \times 6 = 60$$

$$5 \times 2 \times 6 = 5 \times 12 = 60$$

$$5 \times 2 \times 6 = 2 \times 30 = 60$$

$$3543 + 2312$$

No regrouping

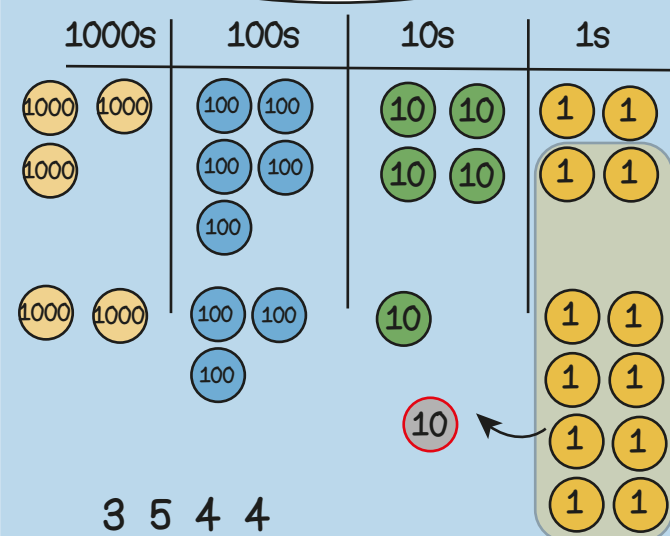


$$\begin{array}{r} 3543 \\ + 2312 \\ \hline 5855 \end{array}$$

$$\begin{array}{l} 3 + 2 = 5 \\ 4 + 1 = 5 \\ 5 + 3 = 8 \\ 3 + 2 = 5 \end{array}$$

$$3544 + 2318$$

Regrouping the ones



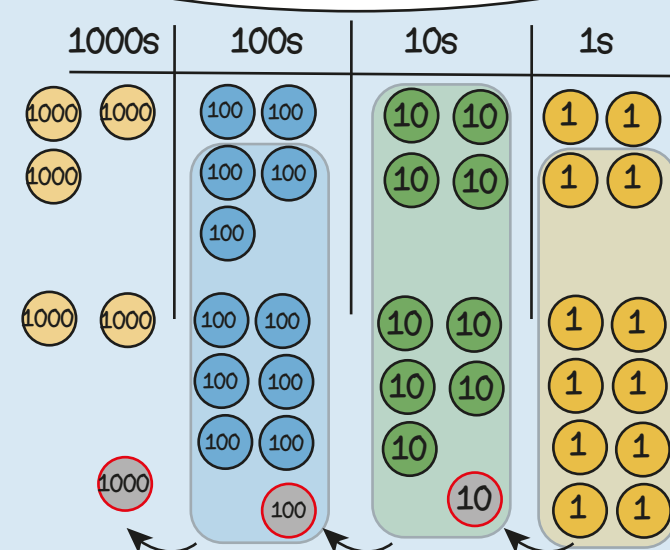
$$\begin{array}{r} 3544 \\ + 2318 \\ \hline 5862 \end{array}$$

Regroup the 12 ones into 1 ten and 2 ones



$$3544 + 2658$$

Regrouping in multiple columns



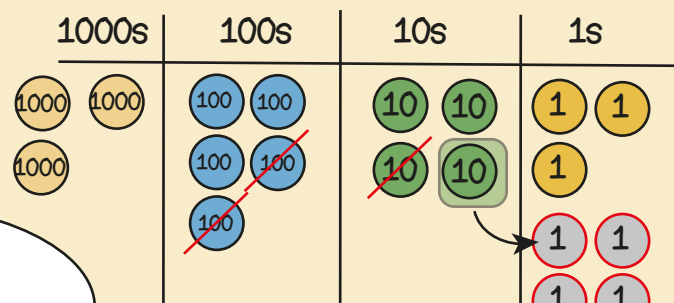
$$\begin{array}{r} 3544 \\ + 2658 \\ \hline 6202 \end{array}$$

If the column sum is equal to ten or more, we must regroup.

Year 4 Term 3

$$3543 - 1216$$

Exchanging tens



$$\begin{array}{r} 3543 \\ - 1216 \\ \hline 2327 \end{array}$$

If the ones digit in the minuend is less than the ones digit in the subtrahend, I need to exchange 1 ten for 10 ones.

$$3343 - 1756$$

Exchanging in multiple columns



$$\begin{array}{r} 3343 \\ - 1756 \\ \hline 1587 \end{array}$$

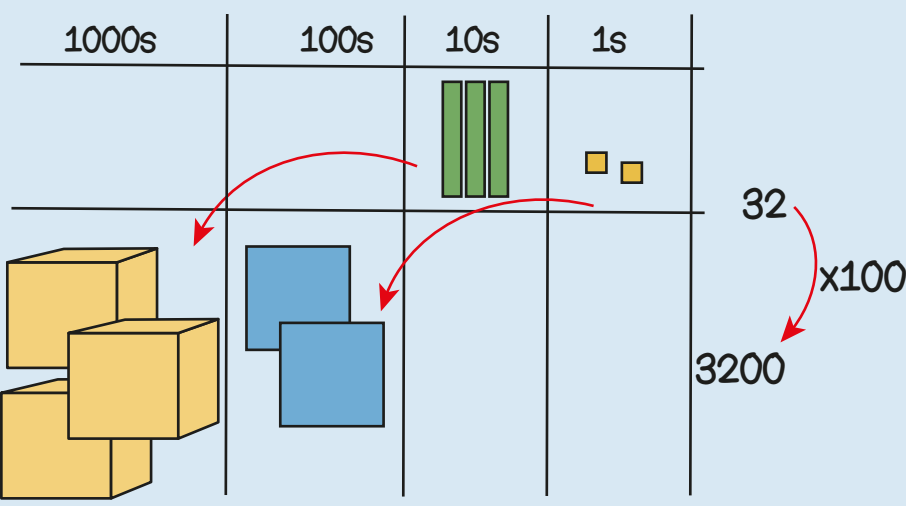
Stop and Look! What do you notice? Where will we regroup or exchange?

$$3543 - 835$$

Different numbers of digits

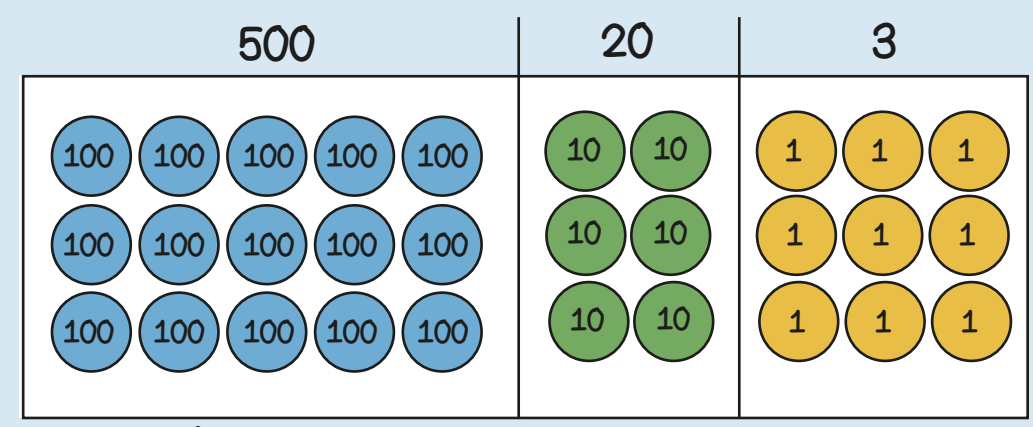
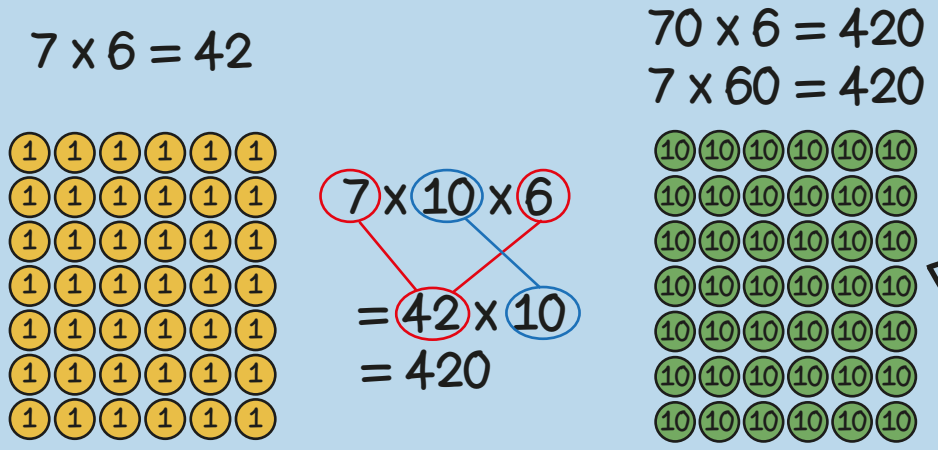
$$\begin{array}{r} 3543 \\ - 835 \\ \hline 2708 \end{array}$$

Line up the ones with the ones, the tens with the tens.



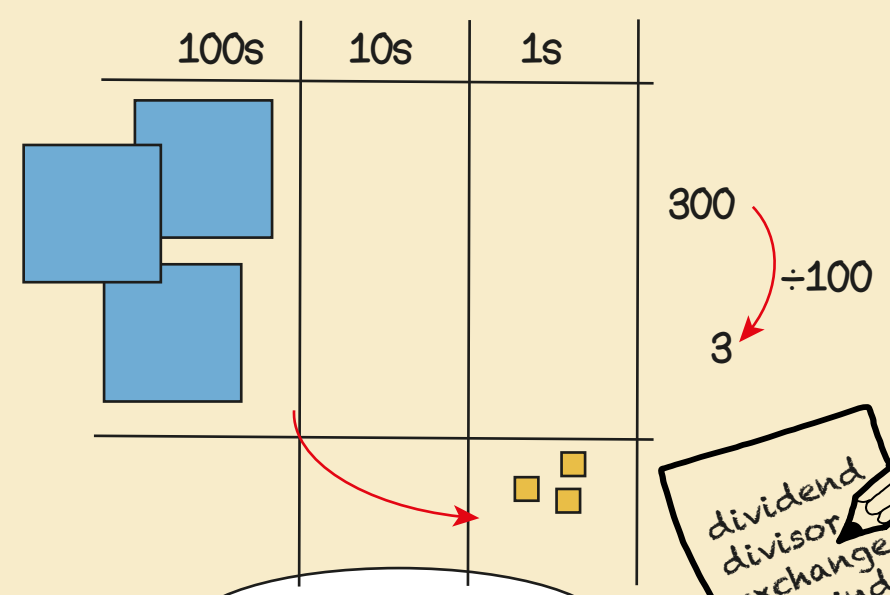
3000 is one hundred times greater than 30
2 multiplied by one hundred is 200

70 x 6 = ?
If I know 7 x 6 = 42
then I know 70 x 6 = 420
because it is ten times greater



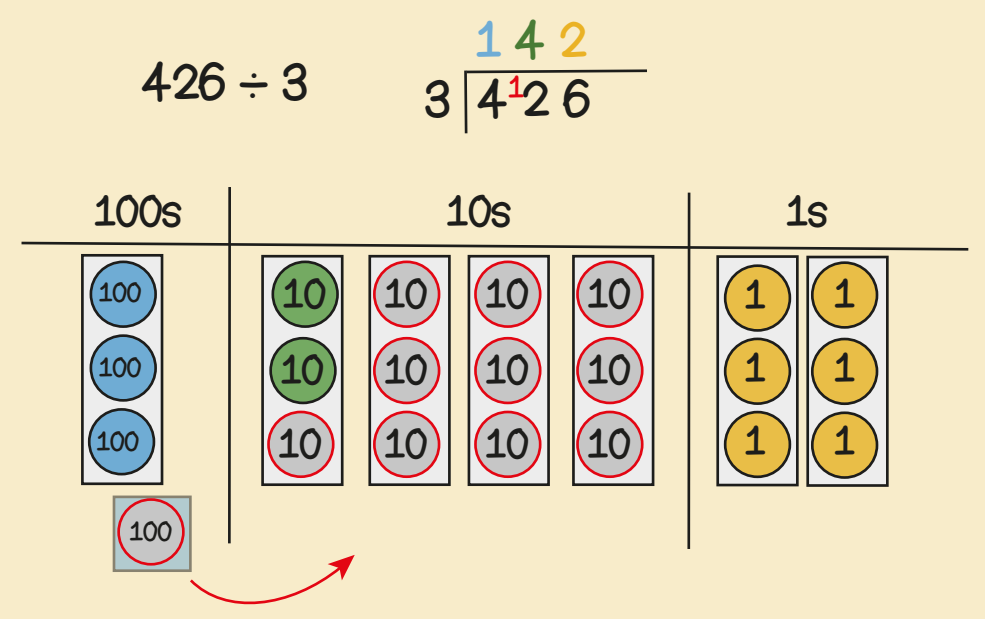
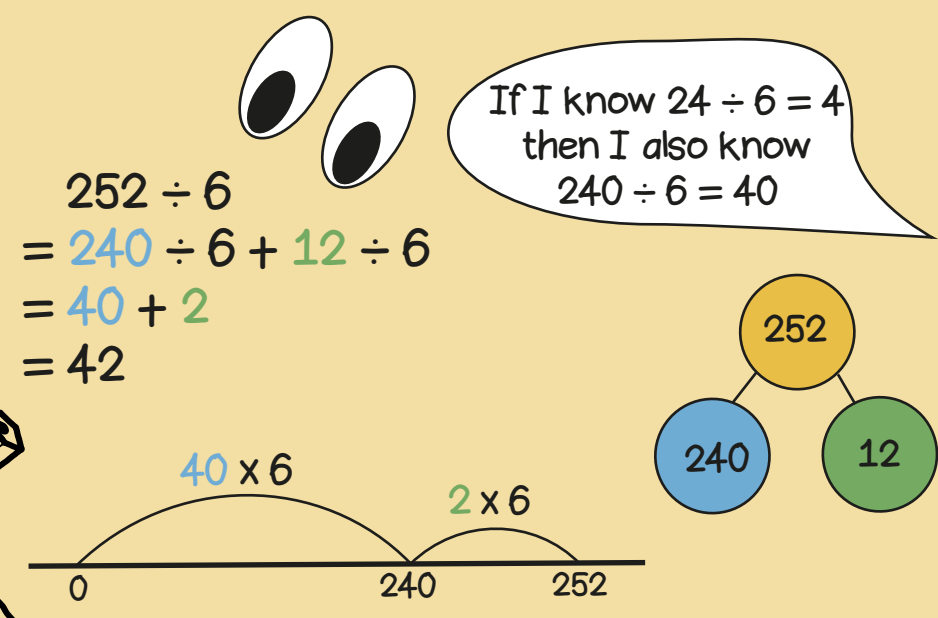
multiplier
product
regroup

$$\begin{array}{r} 523 \\ \times 3 \\ \hline 1569 \end{array}$$



3 is one hundred times smaller than 300

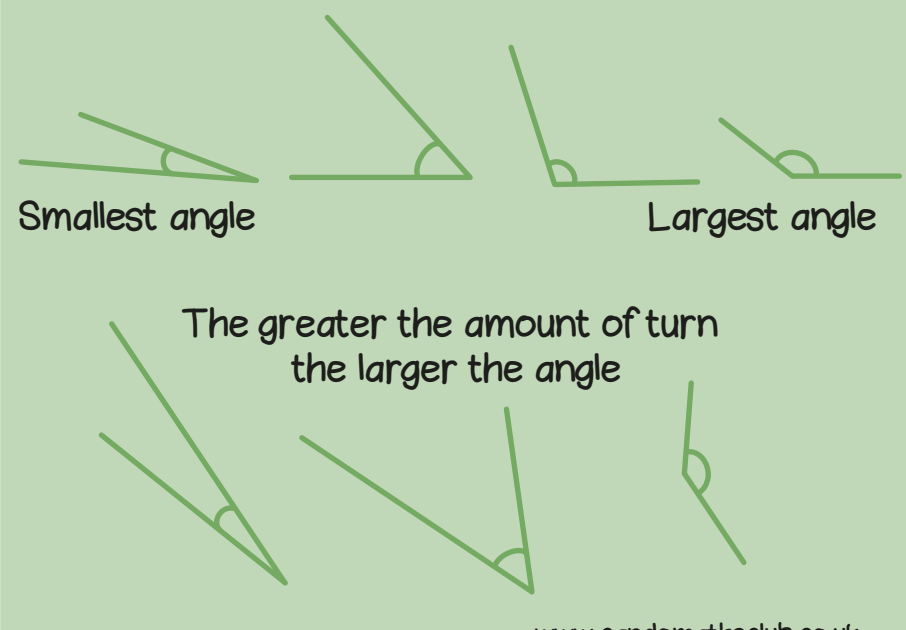
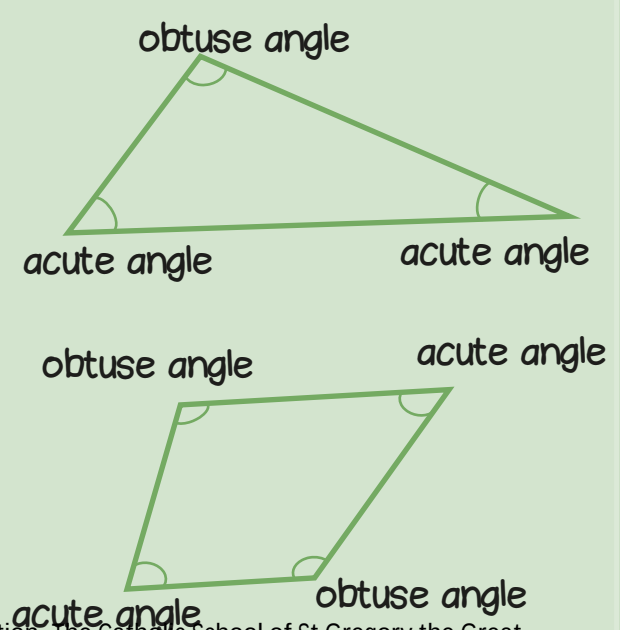
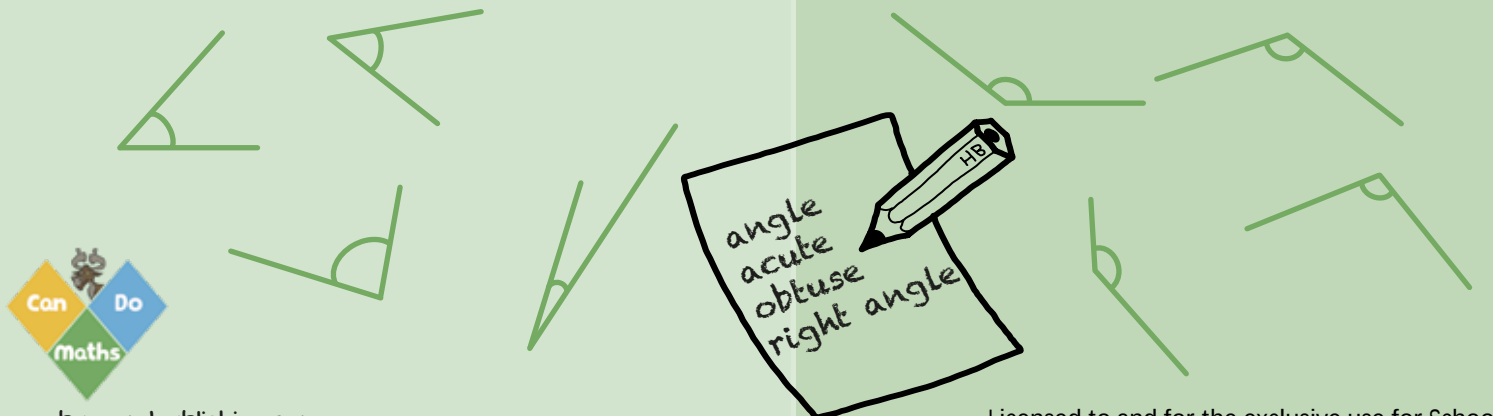
dividend
divisor
exchange
remainder
quotient

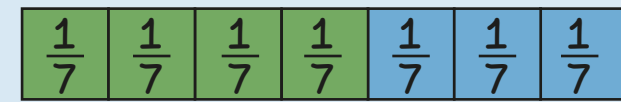
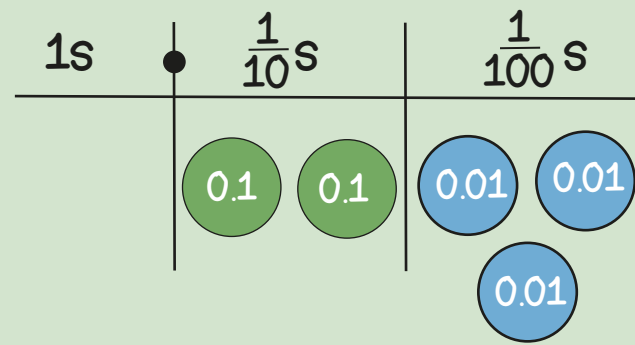
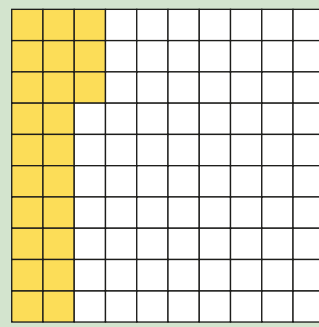
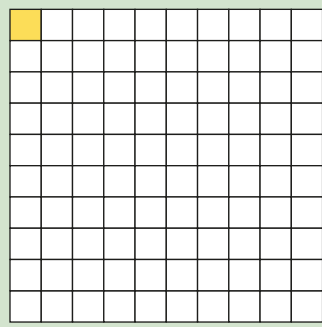


Year 4 Term 4

An acute angle is smaller than a right angle

An obtuse angle is greater than a right angle





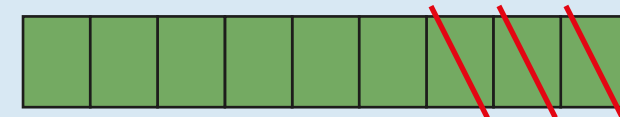
one hundredth
one out of 100 equal parts
one divided by one hundred

$$\frac{23}{100} = 0.23$$

$$\frac{1}{100} = 0.01$$

$$\frac{4}{7} + \frac{5}{7} = \frac{9}{7}$$

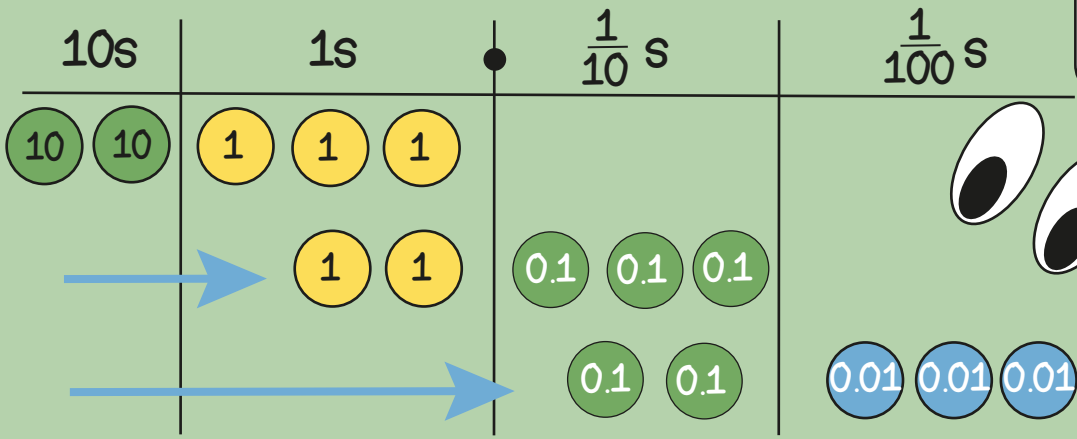
When adding fractions with the same denominators the denominator stays the same, just add the numerators.



$$\frac{13}{9} - \frac{7}{9} = \frac{6}{9}$$

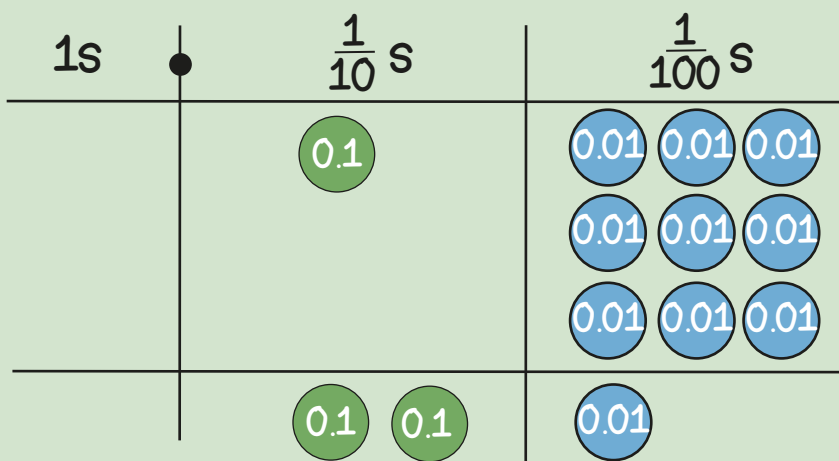
When subtracting fractions with the same denominators the denominator stays the same, just subtract the numerators.

Year 4 Term 5

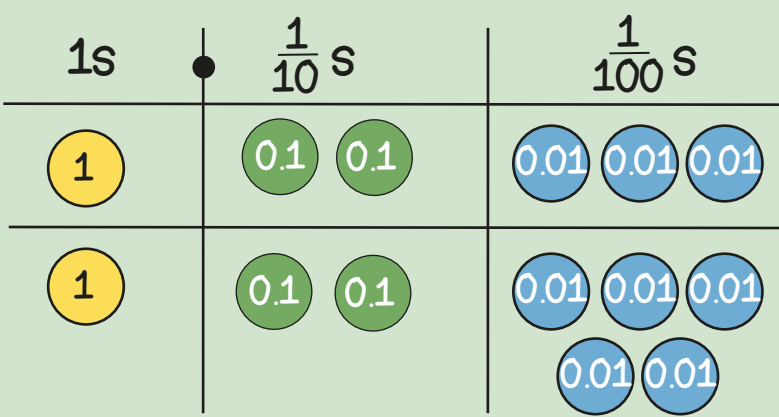


$23 \div 10 = 2.3$
move digits 1 place right

$23 \div 100 = 0.23$
move digits 2 places right

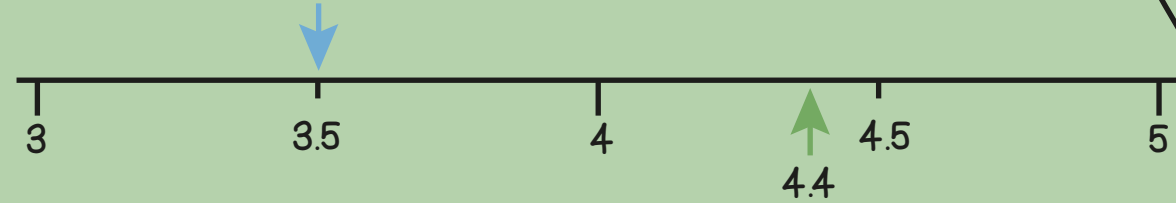


$$0.21 > 0.19$$

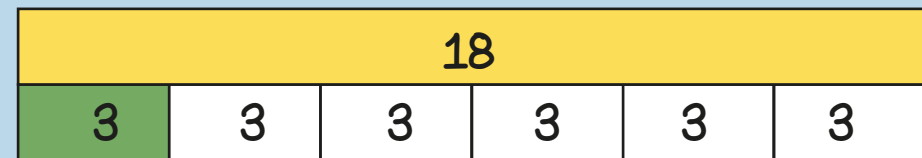
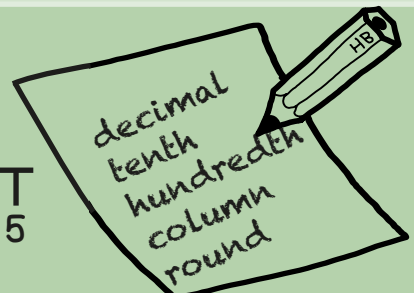


$$1.23 < 1.25$$

3.5 rounded to the nearest whole number is 4



4.4 rounded to the nearest whole number is 4

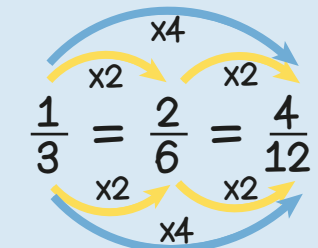
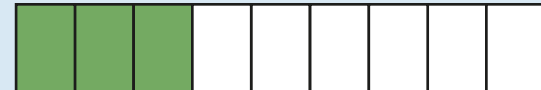
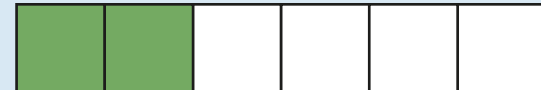


$$\frac{1}{6} \text{ of } 18 = 3$$



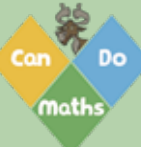
$$5 \times 3 = 15$$

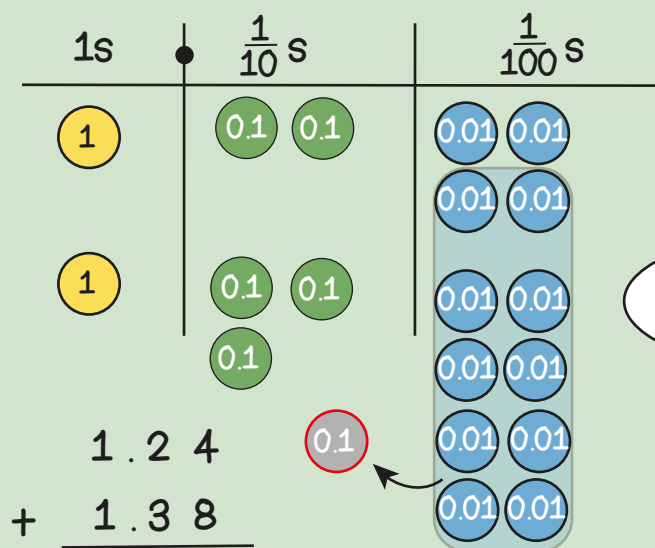
$$\frac{5}{6} \text{ of } 18 = 5 \times 3 = 15$$



$$\frac{1}{3} = \frac{3}{9}$$

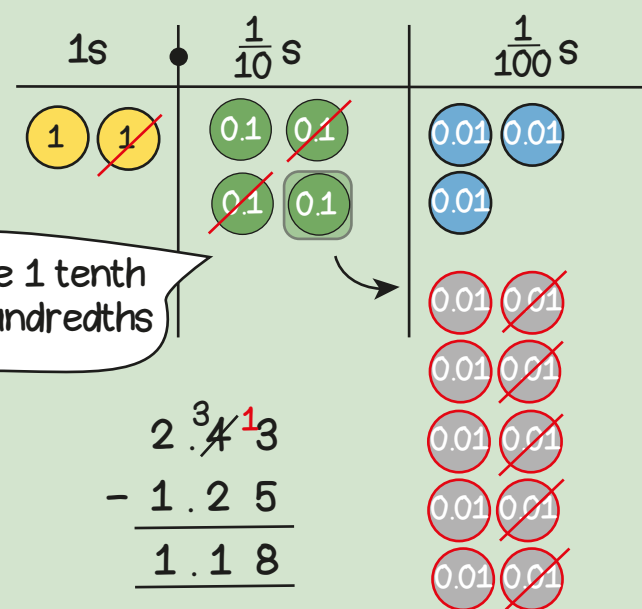
Use the same multiplier on the numerator and denominator.





$$\begin{array}{r} 1.24 \\ + 1.38 \\ \hline 2.62 \end{array}$$

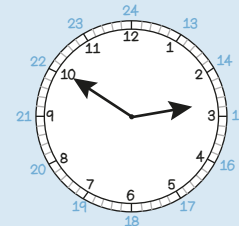
Regroup the 12 hundredths into 1 tenth and 2 hundredths



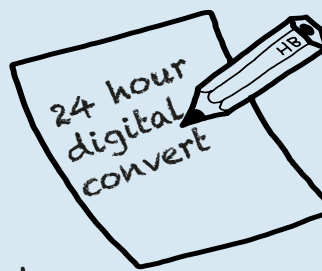
Exchange 1 tenth for 10 hundredths

$$\begin{array}{r} 2.34 \\ - 1.25 \\ \hline 1.09 \end{array}$$

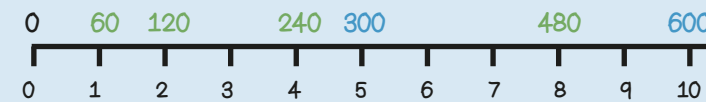
10 to 3 in the morning
2:50 a.m.
02:50



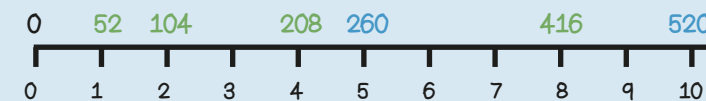
10 to 3 in the afternoon
2:50 p.m.
14:50



1 hour = 60 minutes
so 4 hours = 240 minutes



1 year = 52 weeks
so 5 years = 260 weeks



1 week = 7 days
so 4 weeks = 4 x 7 = 28 days

1 kilometre = 1000 metres
1 kilogram = 1000 grams
1 litre = 1000 millilitres



$$0.54 + 0.32 = ?$$

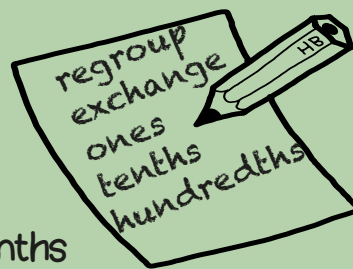
If I know $54 + 32 = 86$
then I know
54 hundredths + 32 hundredths
= 86 hundredths
so ...
 $0.54 + 0.32 = 0.86$



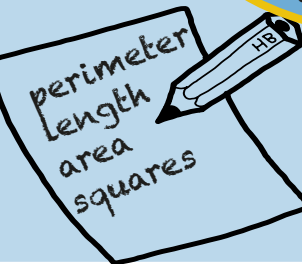
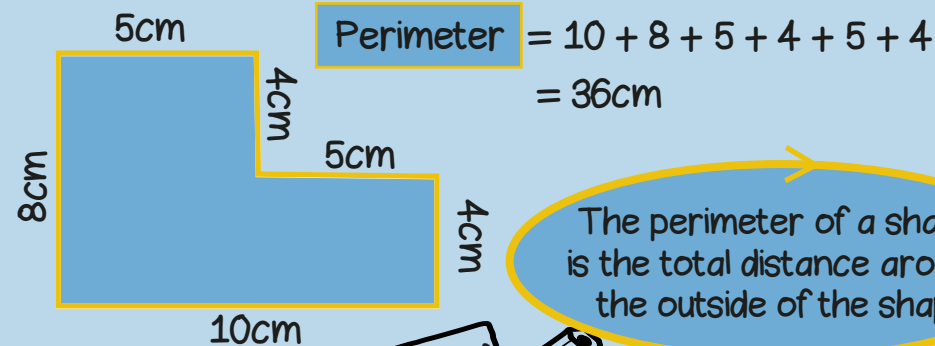
I can calculate these mentally!

$$0.9 - 0.4 = ?$$

If I know $9 - 4 = 5$
then I know
9 tenths - 4 tenths = 5 tenths
so ...
 $0.9 - 0.4 = 0.5$



Year 4 Term 6



The perimeter of a shape is the total distance around the outside of the shape

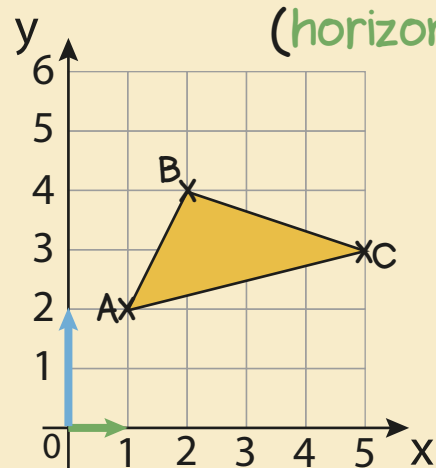
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

Area = 20 squares

The area of a shape is the amount of space inside a shape.

Coordinates

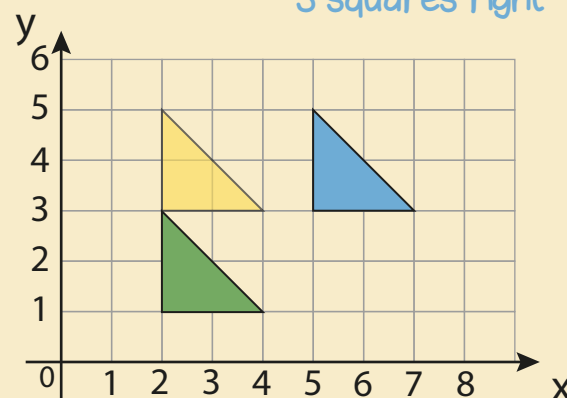
(horizontal, vertical)



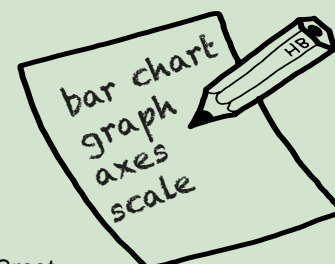
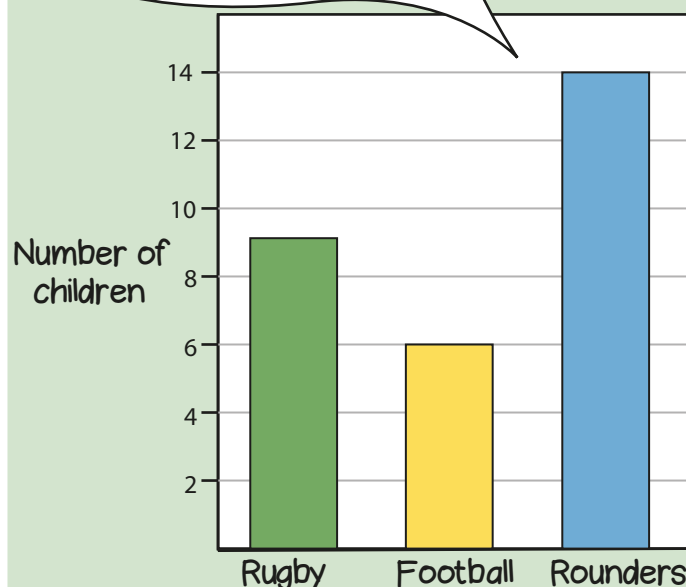
The coordinates of the points are:

A = (1, 2)
B = (2, 4)
C = (5, 3)

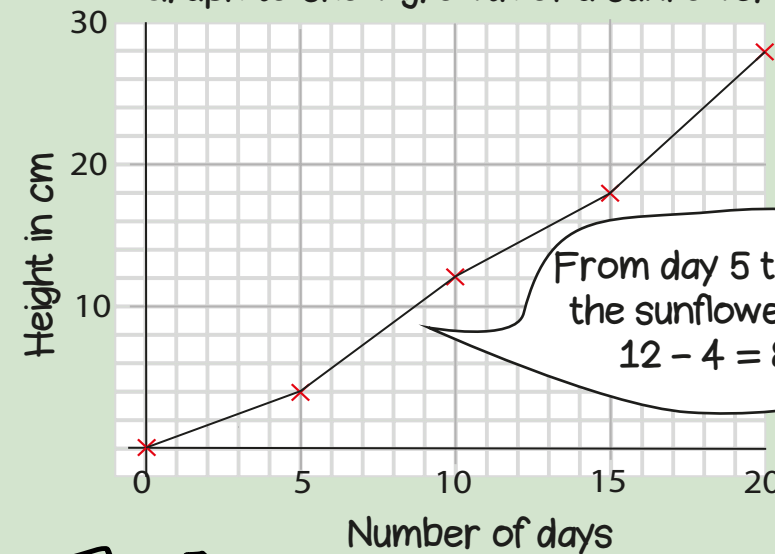
Translate the triangle
2 squares up and
3 squares right



$14 - 9 = 5$
so 5 more children like
rounders than rugby



Graph to show growth of a sunflower



From day 5 to day 10
the sunflower grows
 $12 - 4 = 8\text{ cm}$

