

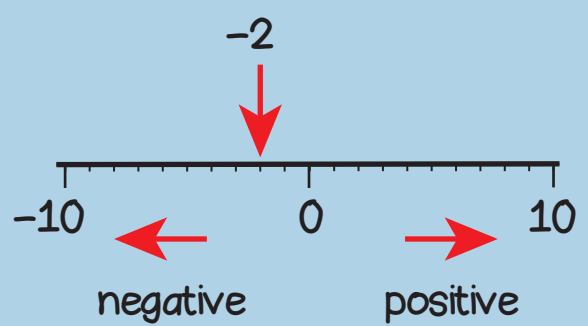
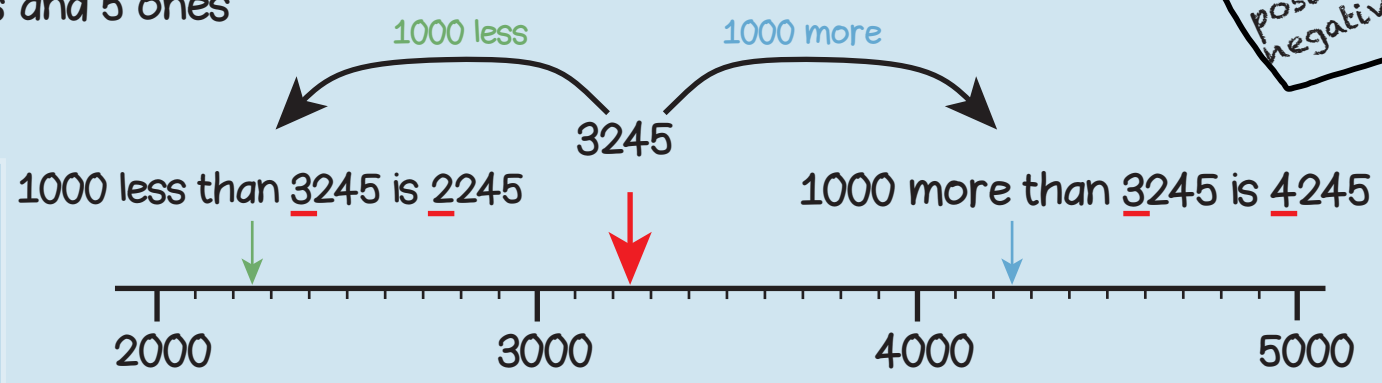
three thousand, two hundred and forty-five
3 thousands, 2 hundreds, 4 tens and 5 ones

In order from smallest to largest

2987, 5894, 6080
4261, 4406, 4540

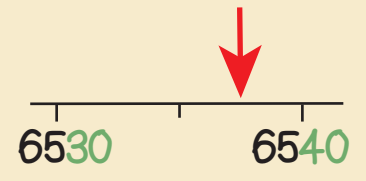
Stop and look.
What do you notice?

thousands
digit
round
multiple
positive
negative

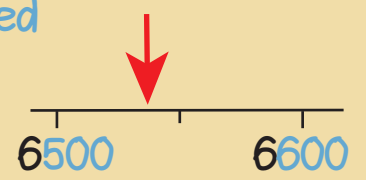


5 or more - round up
4 or less - round down

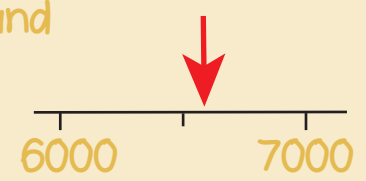
Round to the nearest ten
 $6538 \rightarrow 6540$



Round to the nearest hundred
 $6538 \rightarrow 6500$



Round to the nearest thousand
 $6538 \rightarrow 7000$



Year 4 Term 1

Equilateral Triangles
3 equal sides

Isosceles Triangles
2 equal sides

Scalene Triangles
all sides different

trapezium
parallelogram
rhombus
kite
adjacent
equilateral
scalene
isosceles

Quadrilaterals are shapes with 4 straight sides

parallelogram - opposite sides parallel

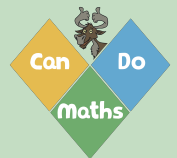
rectangles - 4 right angles

rhombus - 4 equal sides

squares

Trapezium - exactly one pair of parallel sides

Kites - 2 pairs of equal adjacent sides



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

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

multiple factor product

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.

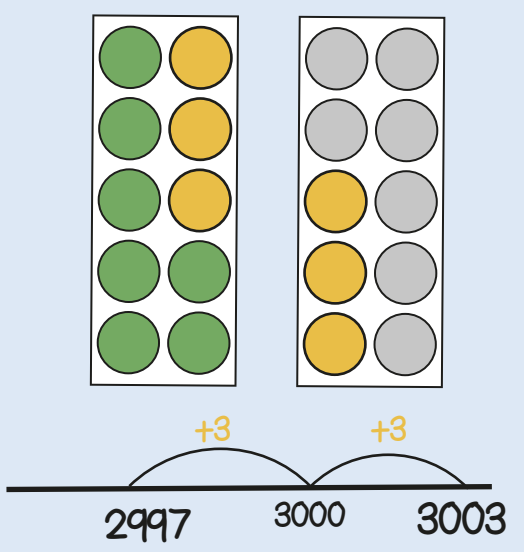
0	x	7	=	0	=	7	x	0
1	x	7	=	7	=	7	x	1
2	x	7	=	14	=	7	x	2
3	x	7	=	21	=	7	x	3
4	x	7	=	28	=	7	x	4
5	x	7	=	35	=	7	x	5
6	x	7	=	42	=	7	x	6
7	x	7	=	49	=	7	x	7
8	x	7	=	56	=	7	x	8
9	x	7	=	63	=	7	x	9
10	x	7	=	70	=	7	x	10
11	x	7	=	77	=	7	x	11
12	x	7	=	84	=	7	x	12

Can Do Tables

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.

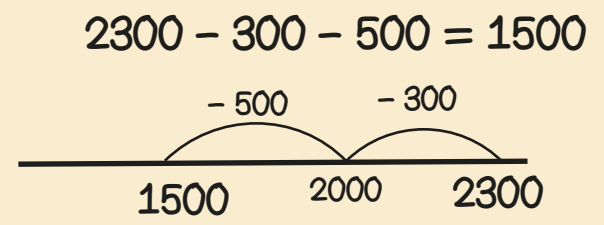
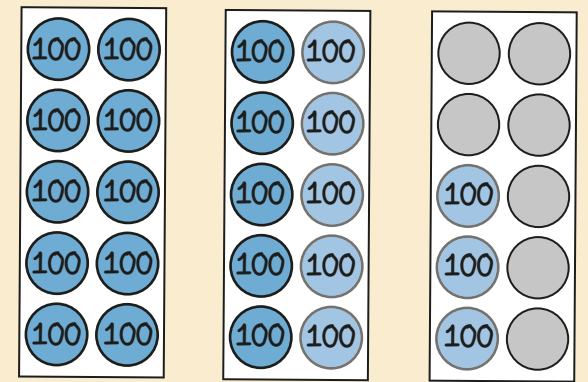
$2997 + 6$
Bridging boundaries



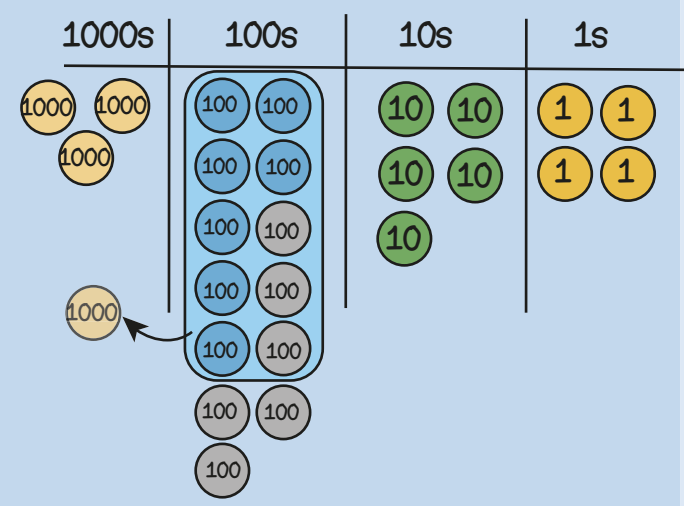
If I know $7 + 6 = 13$ then...

Year 4 Term 2

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



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

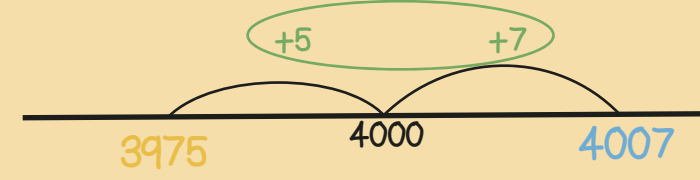


total difference
ones
tens
hundreds
thousands

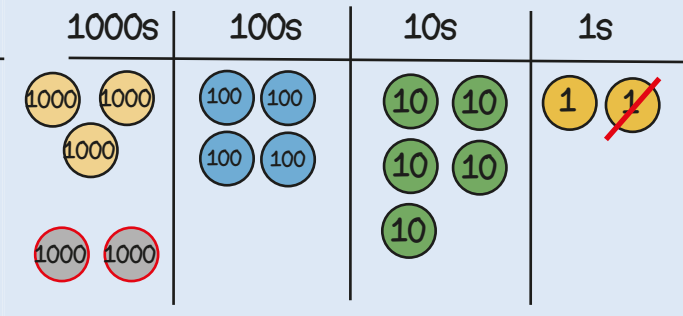
$3995 - 4007$
Find the difference between two numbers



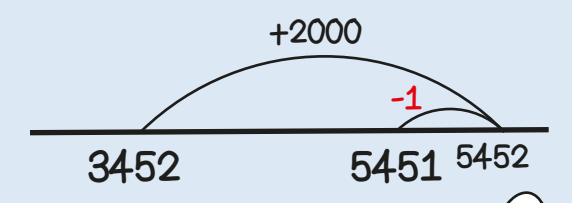
Count on 5 from 3995 to 4000, then 7 more so the difference between them is $5 + 7 = 12$



$3452 + 1999$
Round then adjust

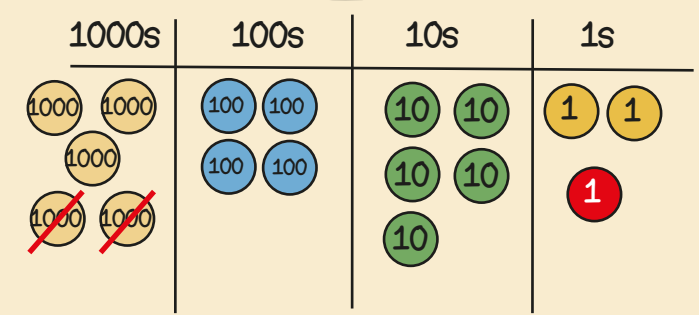


Add 2000 then subtract 1

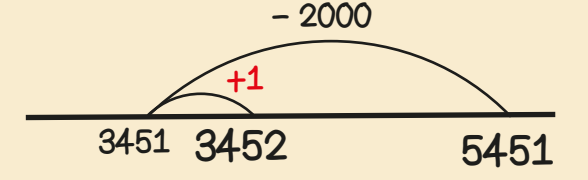


Stop and Look!
What do you notice?
What's the most efficient way?

$5451 - 1999$
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
www.buzzardpublishing.com

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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multiple factor product

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

All multiples of 12 are even numbers.

12 6 72

12 x 6 = 72
 72 = 12 x 6
 72 ÷ 12 = 6
 6 = 72 ÷ 12

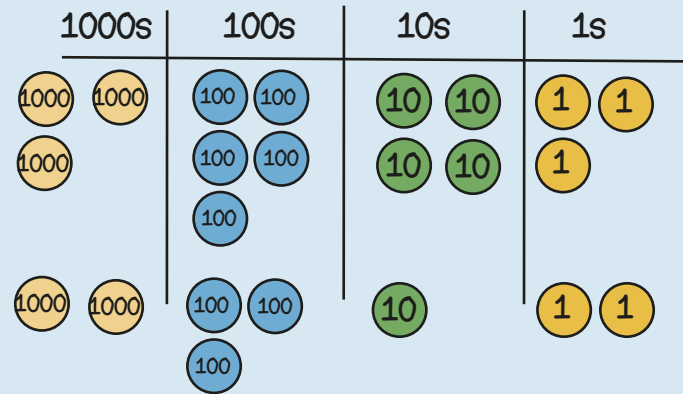
6 x 12 = 72
 72 = 6 x 12
 72 ÷ 6 = 12
 12 = 72 ÷ 6

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

5 x 2 x 6 = 60 = 6 x 2 x 5

5 x 2 x 6 = 10 x 6 = 60
 5 x 2 x 6 = 5 x 12 = 60
 5 x 2 x 6 = 2 x 30 = 60

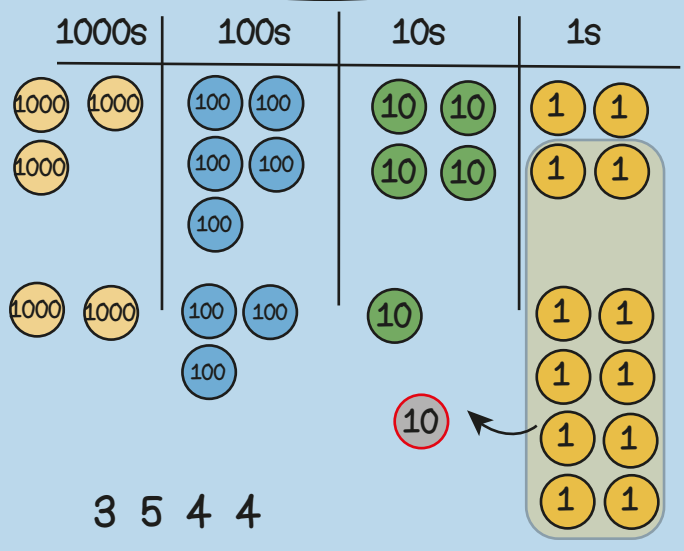
3543 + 2312
No regrouping



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

3 + 2 = 5
 4 + 1 = 5
 5 + 3 = 8
 3 + 2 = 5

3544 + 2318
Regrouping the ones

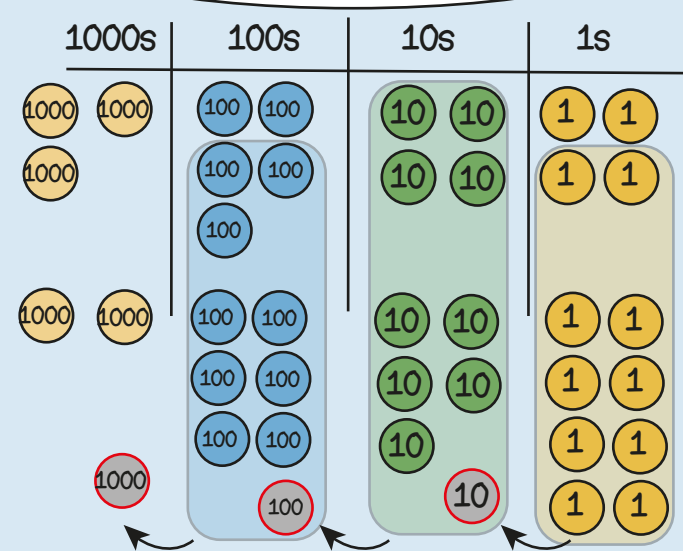


$$\begin{array}{r} 3544 \\ + 2318 \\ \hline 5862 \end{array}$$

Regroup the 12 ones into 1 ten and 2 ones

regroup exchange ones tens hundreds thousands

3544 + 2658
Regrouping in multiple columns

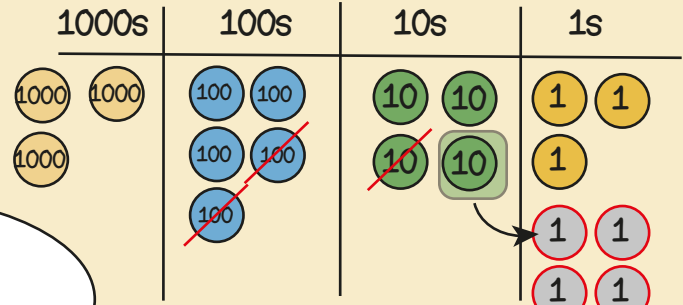


$$\begin{array}{r} 3544 \\ + 2658 \\ \hline 6202 \end{array}$$

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

Year 4 Term 3

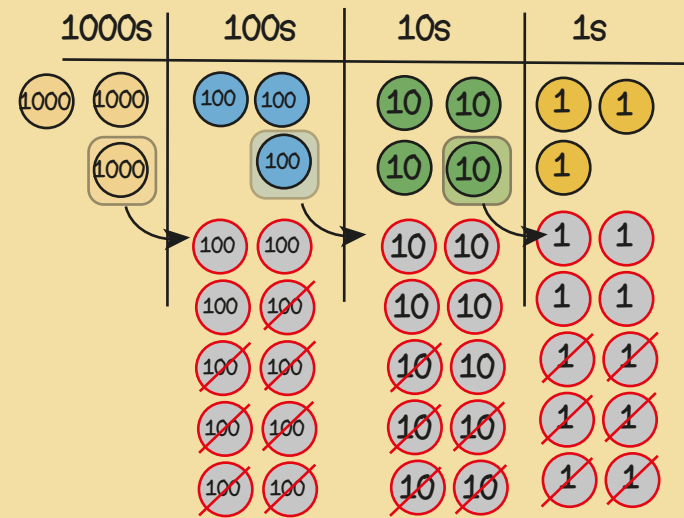
3543 - 1216
Exchanging tens



$$\begin{array}{r} 35\overset{3}{4}3 \\ - 1216 \\ \hline 2327 \end{array}$$

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



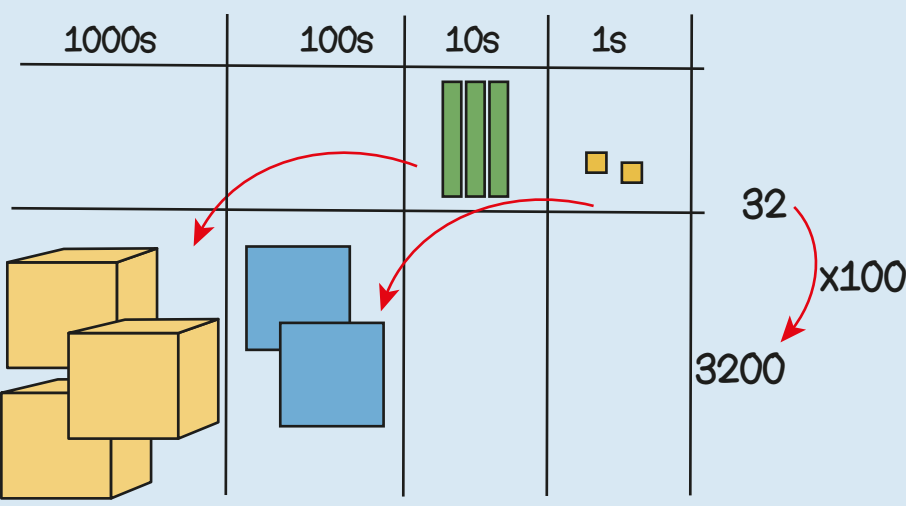
$$\begin{array}{r} 3\overset{2}{3}\overset{12}{4}\overset{13}{3} \\ - 1756 \\ \hline 1587 \end{array}$$

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

3543 - 835
Different numbers of digits

$$\begin{array}{r} 3\overset{2}{5}\overset{1}{4}\overset{3}{3} \\ - 835 \\ \hline 2508 \end{array}$$

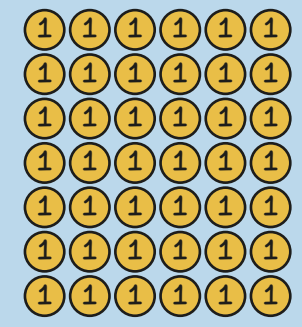
Line up the ones with the ones, the tens with the tens.



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

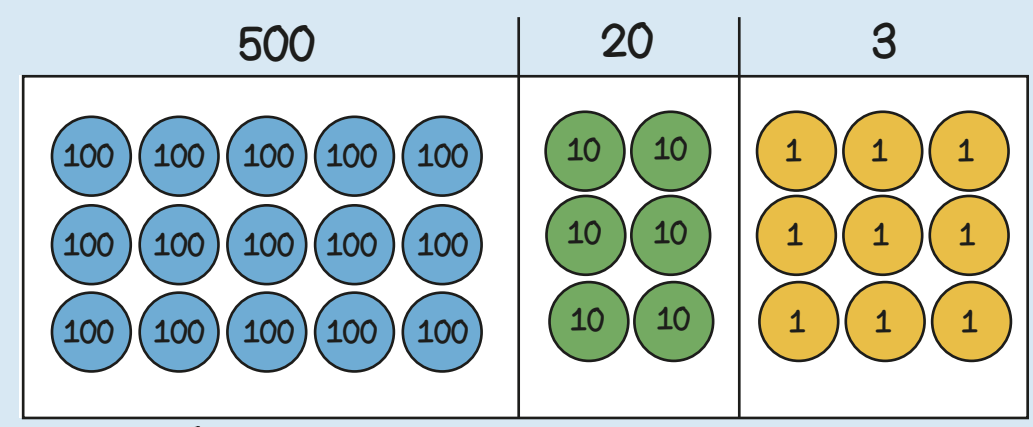
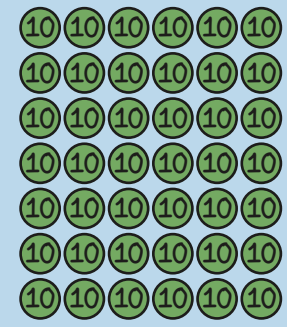
70 x 6 = ?
If I know 7 x 6 = 42
then I know 70 x 6 = 420
because it is ten times greater

7 x 6 = 42



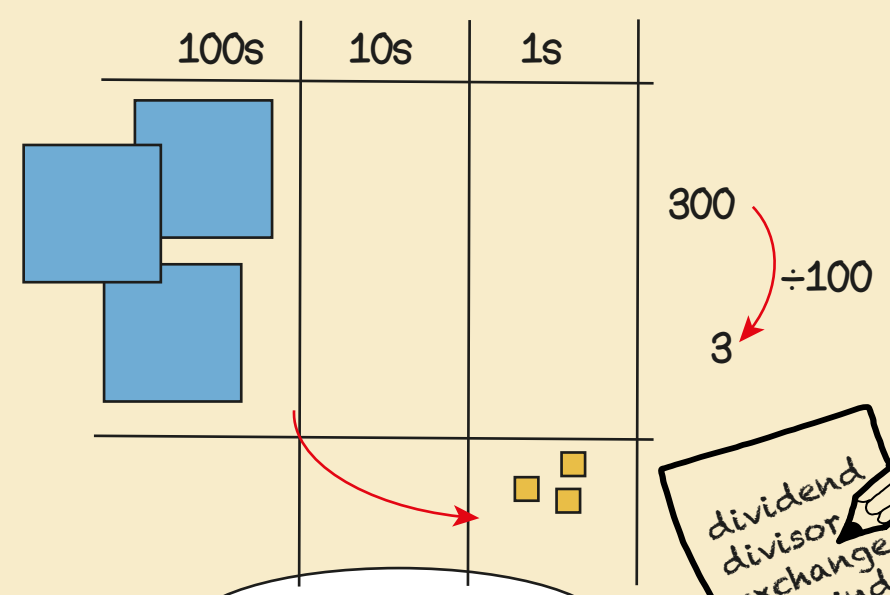
7 x 10 x 6
= 42 x 10
= 420

70 x 6 = 420
7 x 60 = 420



multiplier
product
regroup

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

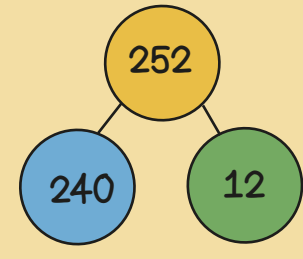
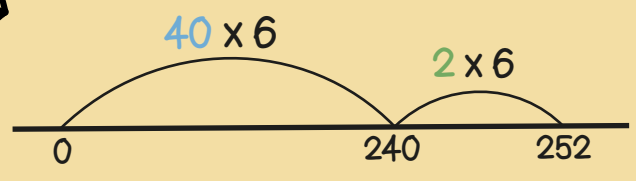


3 is one hundred times smaller than 300

dividend
divisor
exchange
remainder
quotient

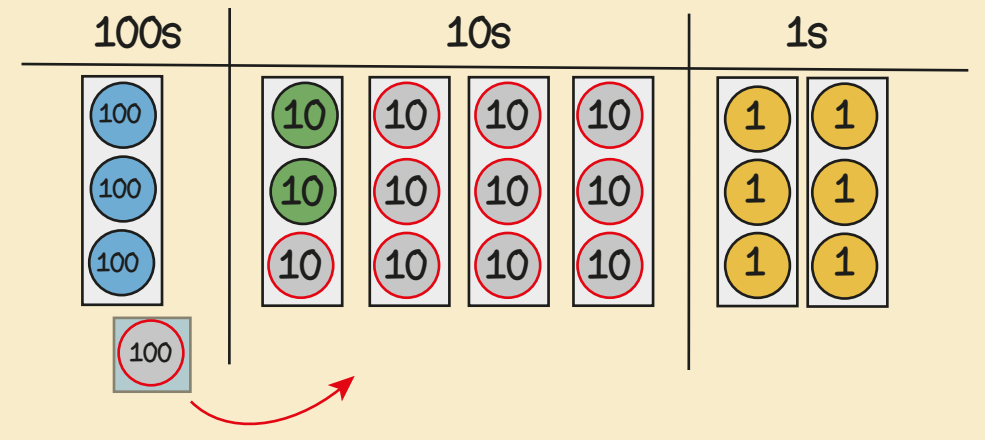
If I know 24 ÷ 6 = 4
then I also know
240 ÷ 6 = 40

252 ÷ 6
= 240 ÷ 6 + 12 ÷ 6
= 40 + 2
= 42



426 ÷ 3

$$\begin{array}{r} 142 \\ 3 \overline{)426} \\ \underline{3} \\ 12 \\ \underline{12} \\ 0 \\ \underline{0} \\ 0 \end{array}$$



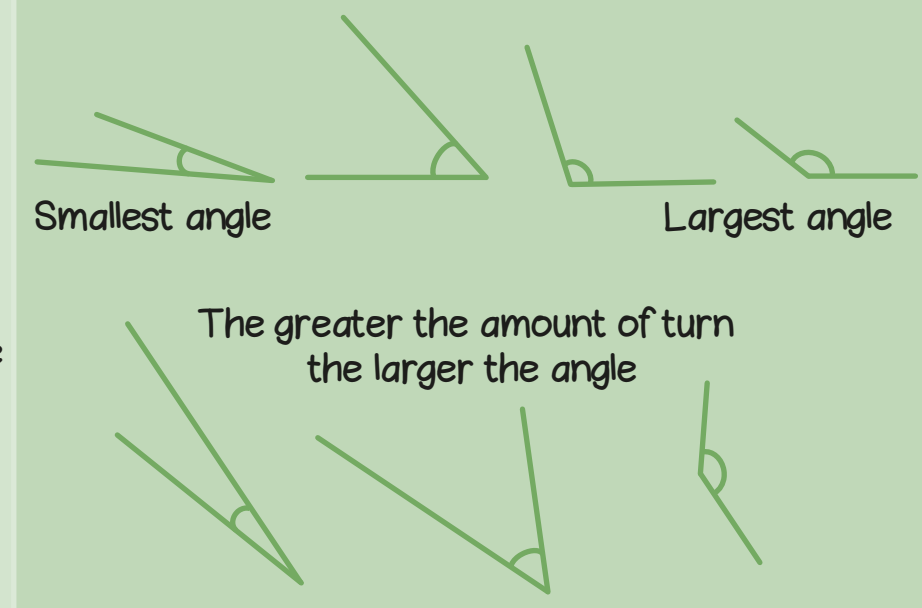
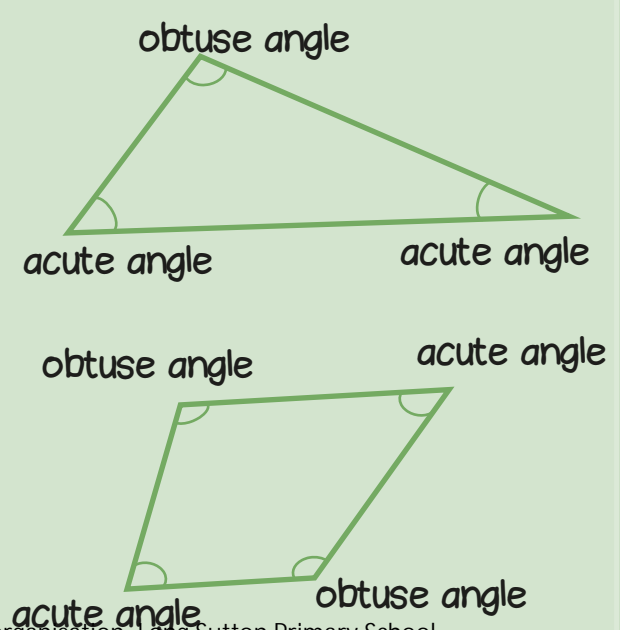
Year 4 Term 4

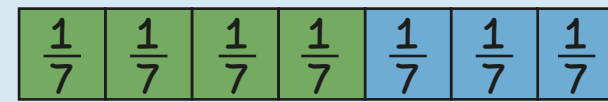
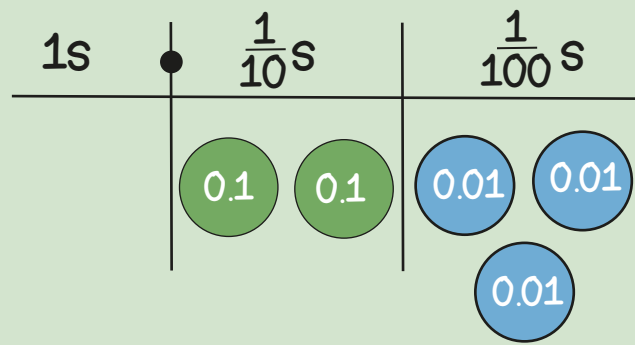
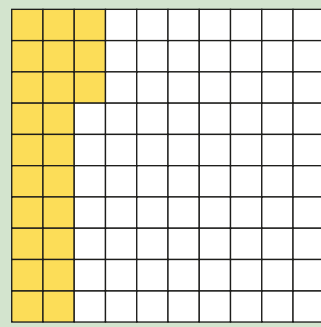
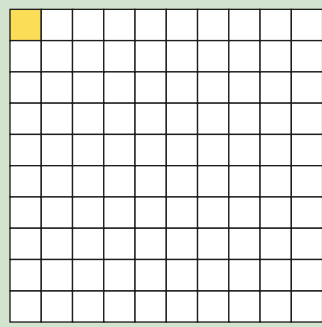
An acute angle is smaller than a right angle

An obtuse angle is greater than a right angle



angle
acute
obtuse
right angle

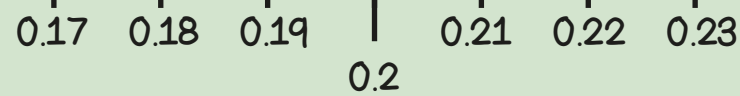




one hundredth
one out of 100 equal parts
one divided by one hundred

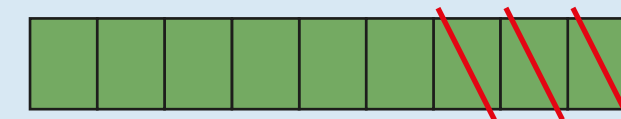
$$\frac{23}{100} = 0.23$$

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



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

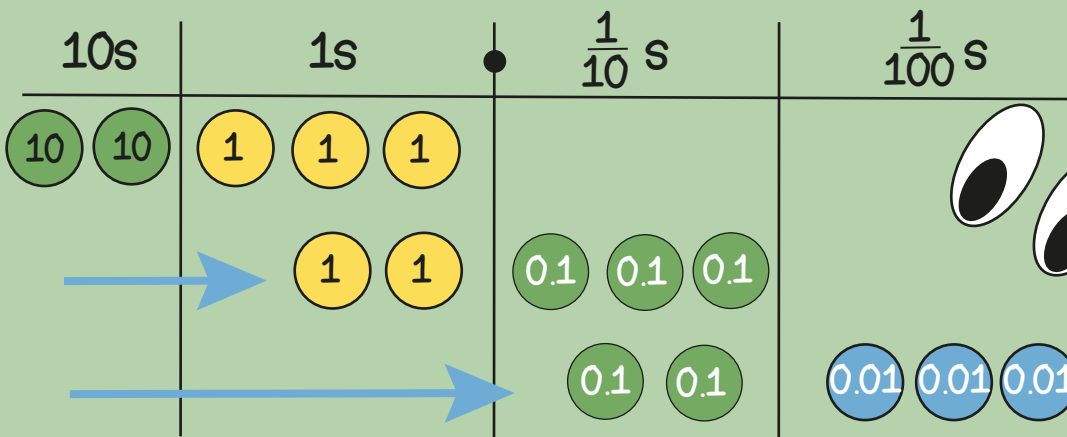
When adding fractions with the same denominators the denominator stays the same, just add the numerators.



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

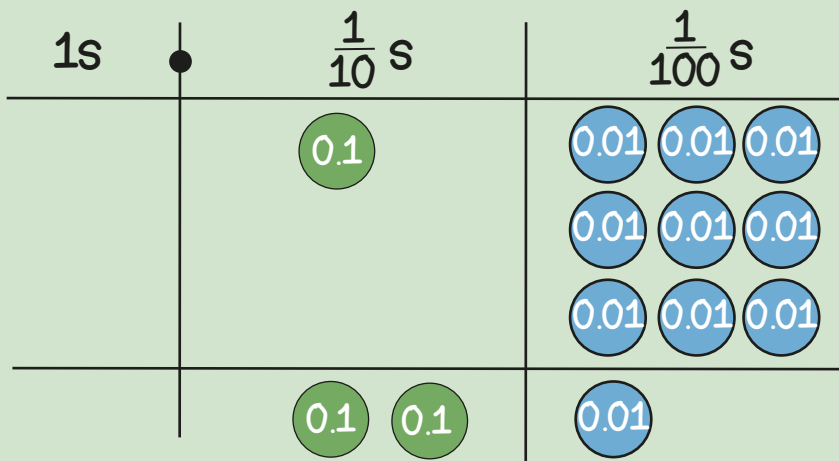
When subtracting fractions with the same denominators the denominator stays the same, just subtract the numerators.

Year 4 Term 5

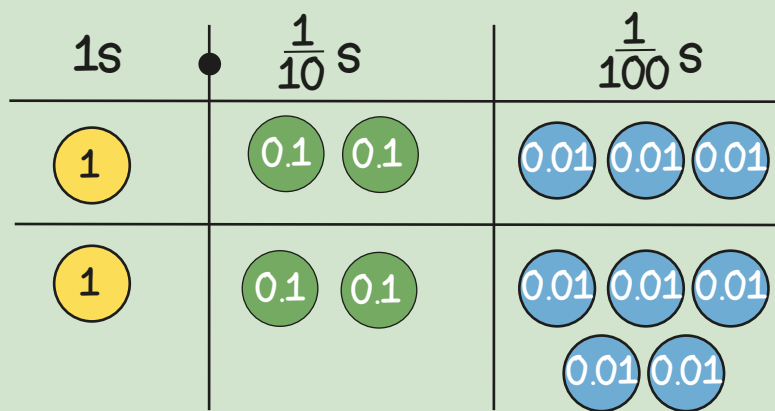


$23 \div 10 = 2.3$
move digits 1 place right

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

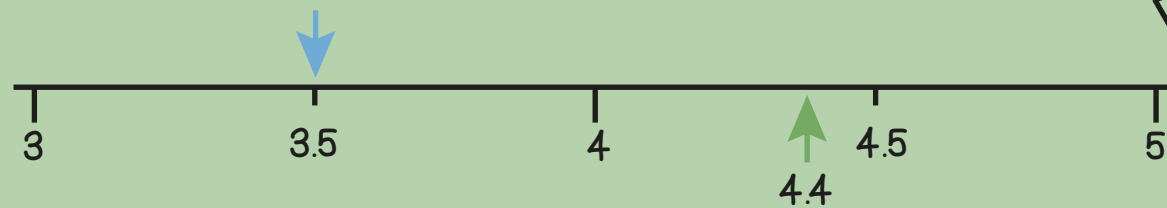


$$0.21 > 0.19$$



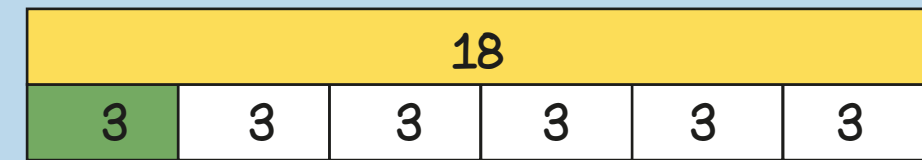
$$1.23 < 1.25$$

3.5 rounded to the nearest whole number is 4



decimal
tenths
hundredths
columns
round

4.4 rounded to the nearest whole number is 4

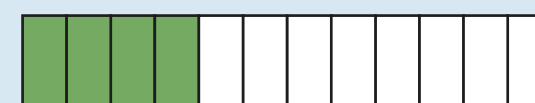
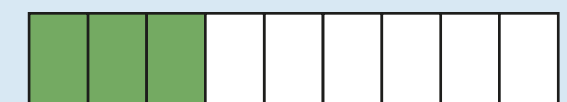
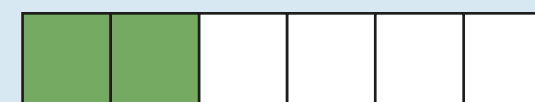


$$\frac{1}{6} \text{ of } 18 = 3$$



$$5 \times 3 = 15$$

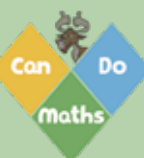
$$\frac{5}{6} \text{ of } 18 = 5 \times 3 = 15$$

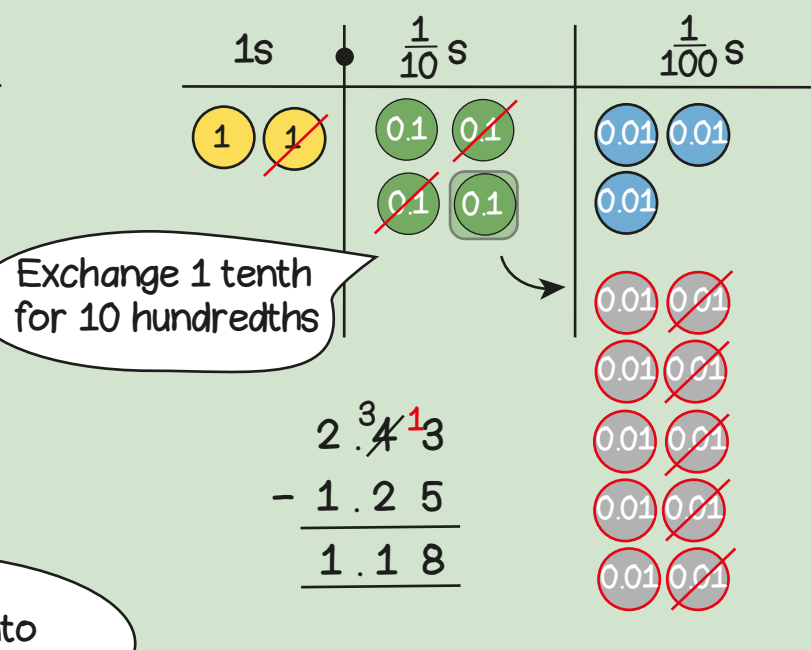
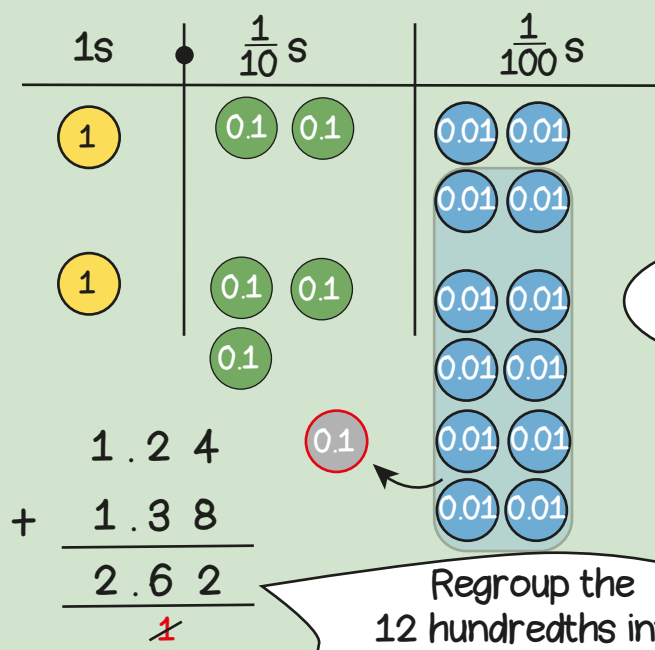


$$\frac{1}{3} = \frac{3}{9}$$

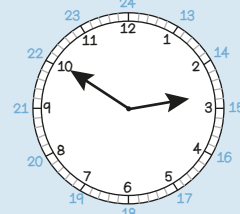
$$\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$$

Use the same multiplier on the numerator and denominator.

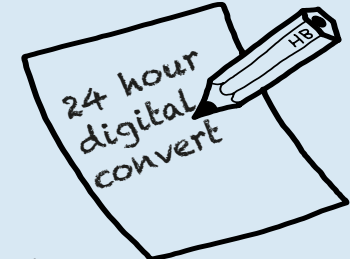




10 to 3 in the morning
2:50 a.m.
02:50



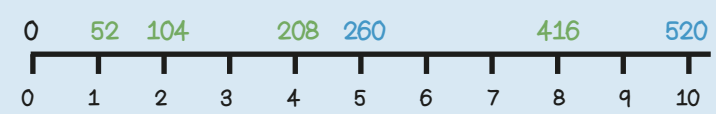
10 to 3 in the afternoon
2:50 p.m.
14:50



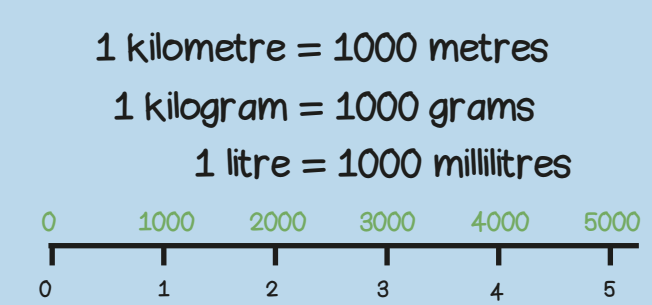
1 hour = 60 minutes
so 4 hours = 240 minutes



1 year = 52 weeks
so 5 years = 260 weeks



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



0.54 + 0.32 = ?

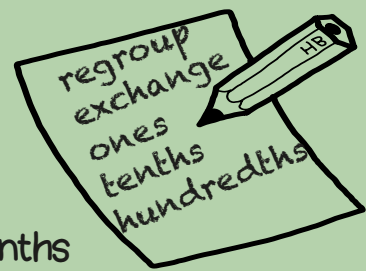
If I know 54 + 32 = 86
then I know
54 hundredths + 32 hundredths
= 86 hundredths
so ...
0.54 + 0.32 = 0.86



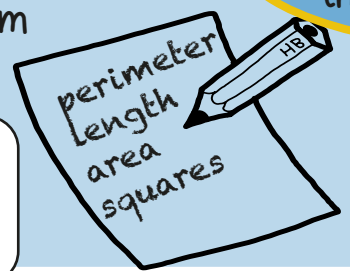
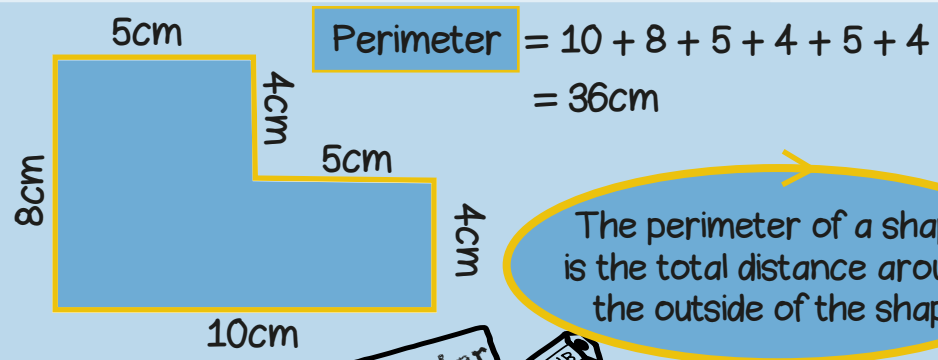
I can calculate these mentally!

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



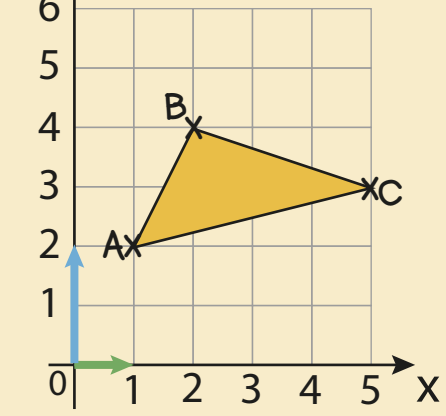
The perimeter of a shape is the total distance around the outside of the shape

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

Area = 20 squares

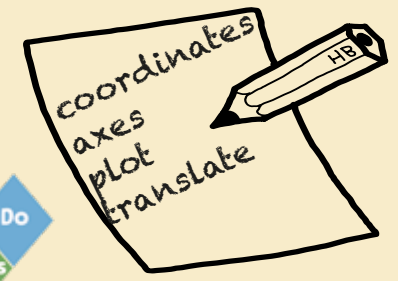
The area of a shape is the amount of space inside a shape.

Coordinates (horizontal, vertical)

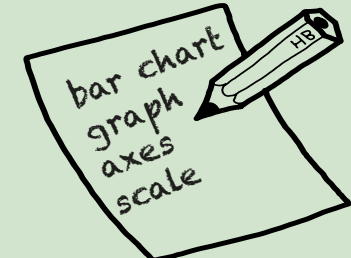
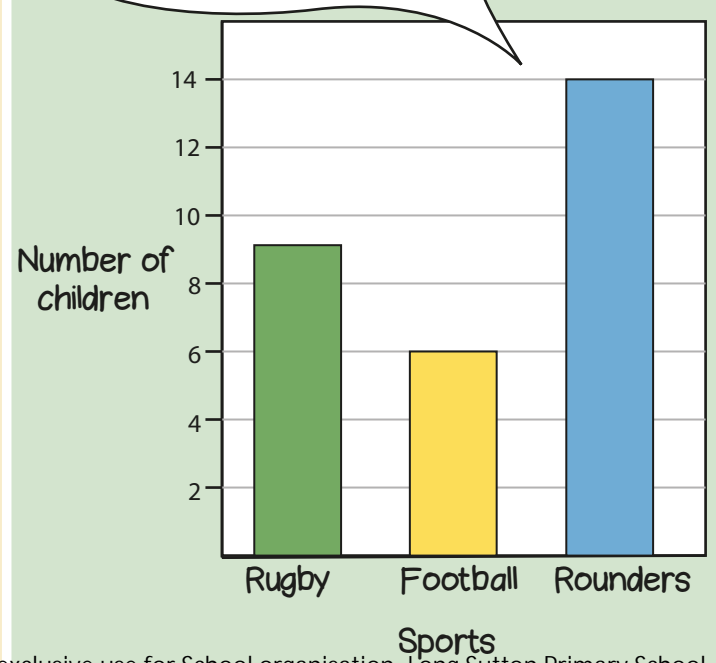


The coordinates of the points are:
A = (1, 2)
B = (2, 4)
C = (5, 3)

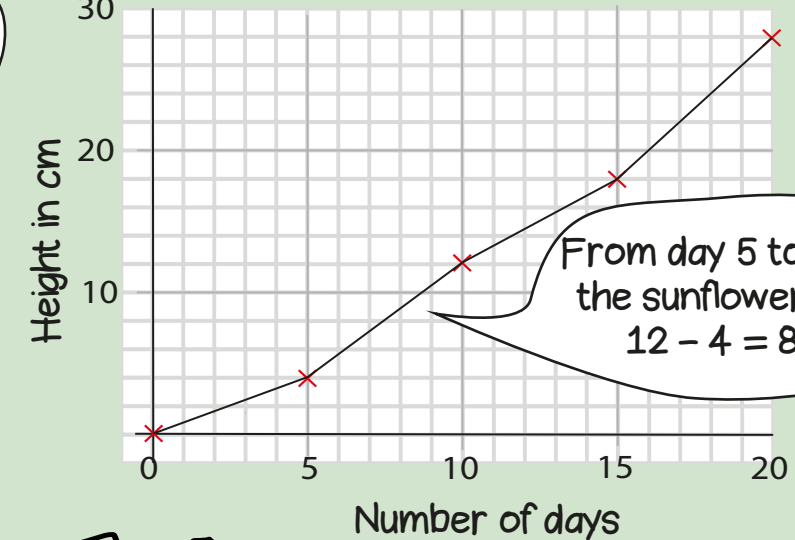
Translate the triangle
2 squares up and
3 squares right



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 cm

