

You CanDo all the multiplication facts of 3.

0	x 3	= 0	= 3 x 0
1	x 3	= 3	= 3 x 1
2	x 3	= 6	= 3 x 2
3	x 3	= 9	= 3 x 3
4	x 3	= 12	= 3 x 4
5	x 3	= 15	= 3 x 5
6	x 3	= 18	= 3 x 6
7	x 3	= 21	= 3 x 7
8	x 3	= 24	= 3 x 8
9	x 3	= 27	= 3 x 9
10	x 3	= 30	= 3 x 10
11	x 3	= 33	= 3 x 11
12	x 3	= 36	= 3 x 12

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

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

An odd number multiplied by 3 gives an odd product.

You CanDo all the multiplication facts of 4.

0	x 4	= 0	= 4 x 0
1	x 4	= 4	= 4 x 1
2	x 4	= 8	= 4 x 2
3	x 4	= 12	= 4 x 3
4	x 4	= 16	= 4 x 4
5	x 4	= 20	= 4 x 5
6	x 4	= 24	= 4 x 6
7	x 4	= 28	= 4 x 7
8	x 4	= 32	= 4 x 8
9	x 4	= 36	= 4 x 9
10	x 4	= 40	= 4 x 10
11	x 4	= 44	= 4 x 11
12	x 4	= 48	= 4 x 12

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All multiples of 4 are even numbers.

There is a repeating pattern in the ones column: 0, 4, 8, 2, 6

You CanDo all the multiplication facts of 8.

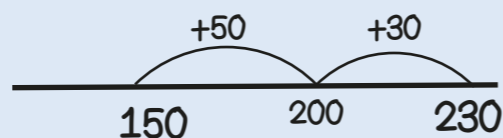
0	x 8	= 0	= 8 x 0
1	x 8	= 8	= 8 x 1
2	x 8	= 16	= 8 x 2
3	x 8	= 24	= 8 x 3
4	x 8	= 32	= 8 x 4
5	x 8	= 40	= 8 x 5
6	x 8	= 48	= 8 x 6
7	x 8	= 56	= 8 x 7
8	x 8	= 64	= 8 x 8
9	x 8	= 72	= 8 x 9
10	x 8	= 80	= 8 x 10
11	x 8	= 88	= 8 x 11
12	x 8	= 96	= 8 x 12

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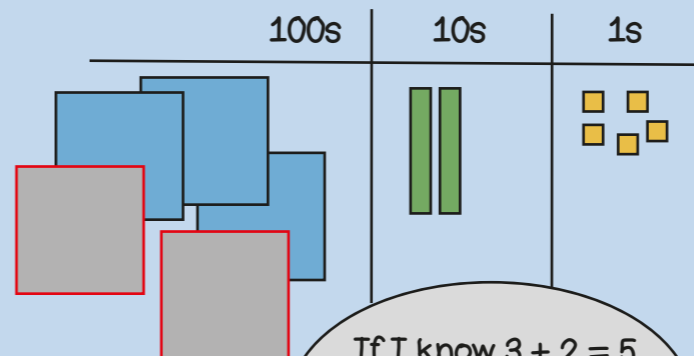
All multiples of 8 are even numbers.

All multiples of 8 are also multiples of 2 and 4

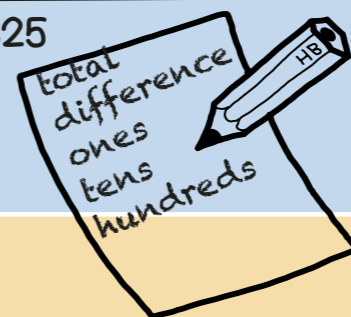
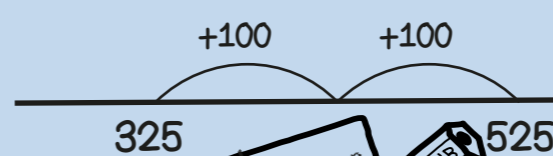
150 + 80 Bridging boundaries



325 + 200 Add multiples of ten and a hundred

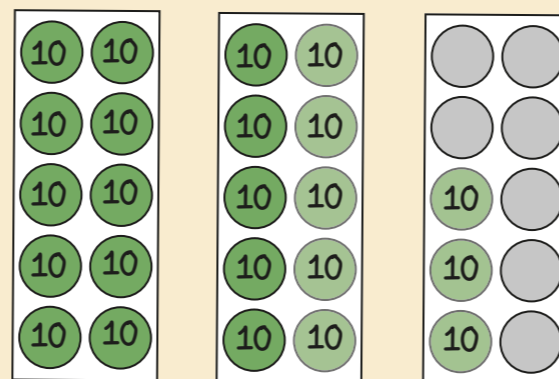


If I know $3 + 2 = 5$ then I know 3 hundreds + 2 hundreds = 5 hundreds

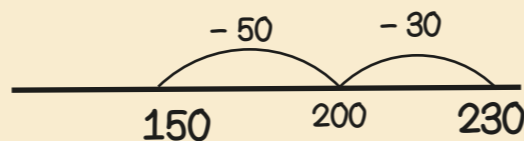


Year 3 Term 2

230 - 80 Bridging boundaries by counting back in efficient steps



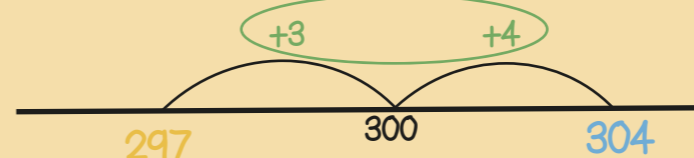
$$230 - 30 - 50 = 150$$



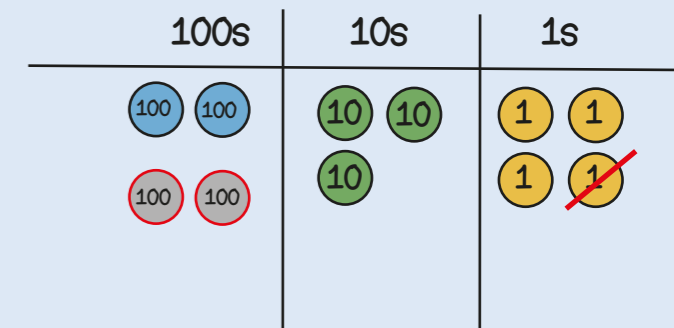
304 - 297 Find the difference between two numbers



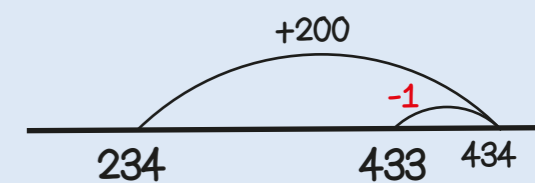
304 is 7 more than 297
297 is 7 less than 304
so the difference between them is 7



234 + 199 Round then adjust

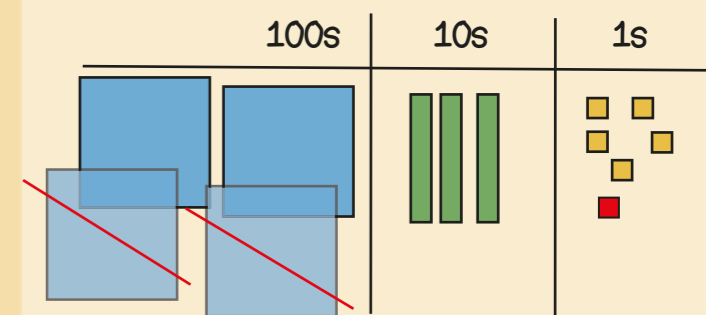


Add 200 then **subtract 1**

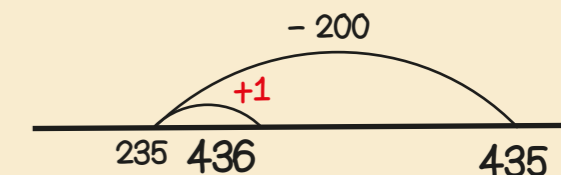


Stop and Look!
What do you notice?
What's the most efficient way?

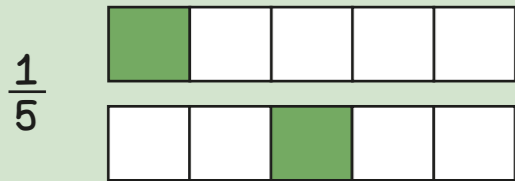
435 - 199 Round then adjust



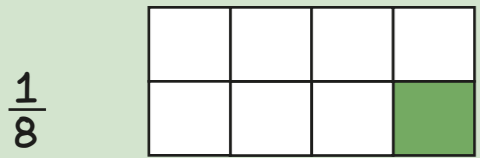
Take away 200 then **add 1**



Unit fractions have a numerator of 1



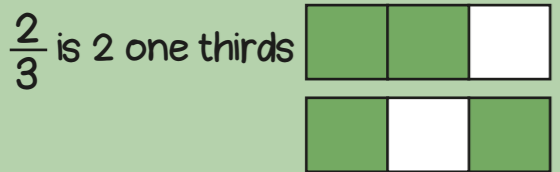
If the denominator is 5 there are 5 equal parts.



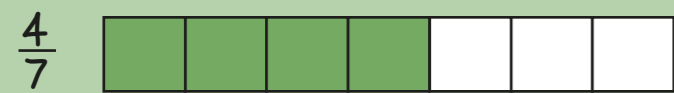
If the denominator is 8 there are 8 equal parts.



Non-unit fractions have a numerator greater than 1



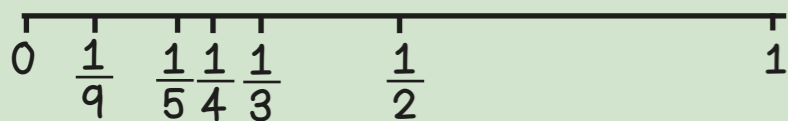
The numerator is 2 so two out of 3 equal parts are shaded.



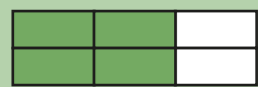
When the denominators are the same, the larger the numerator, the larger the fraction.



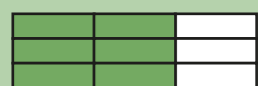
When numerators are the same, the larger the denominator the smaller the fraction.



$$\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$$

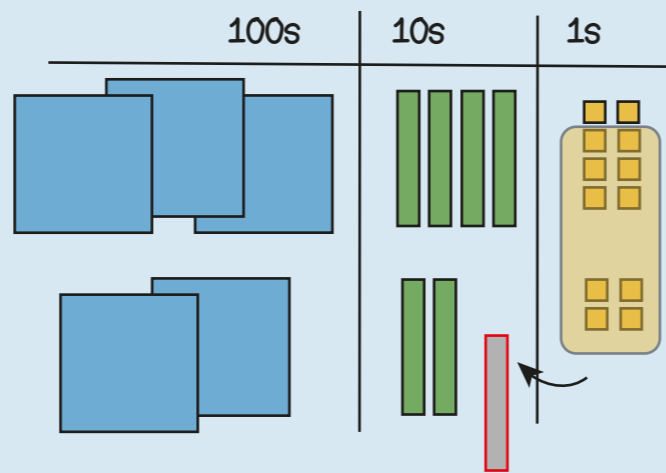


If there are 2 times as many equal parts, then there are 2 times as many shaded parts



If there are 3 times as many equal parts, then there are 3 times as many shaded parts

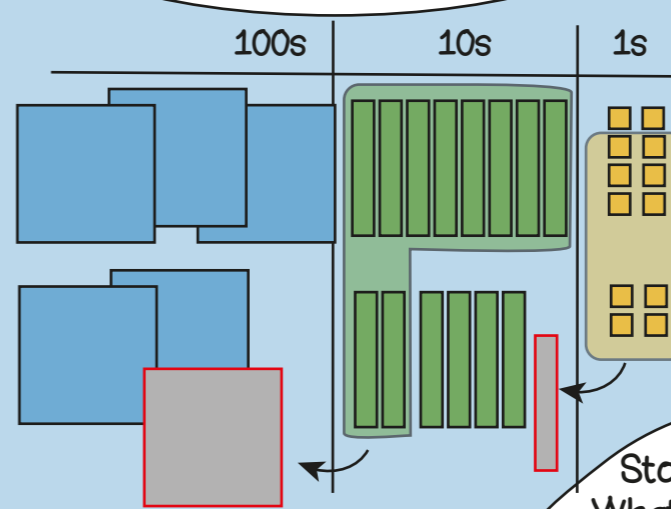
348 + 224
Regrouping the ones



$$\begin{array}{r} 348 \\ + 224 \\ \hline 572 \end{array}$$

Regroup the 12 ones into 1 ten and 2 ones

388 + 264
Regroup in multiple columns



$$\begin{array}{r} 388 \\ + 264 \\ \hline 652 \end{array}$$

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

76 + 388
Different numbers of digits

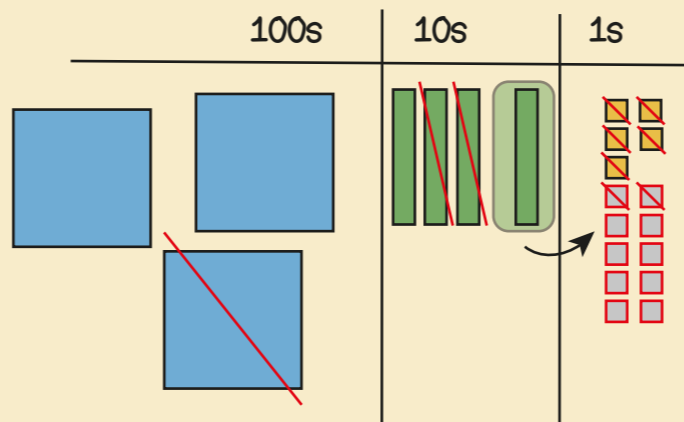
$$\begin{array}{r} 388 \\ + 76 \\ \hline 464 \end{array}$$

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

Year 3 Term 3

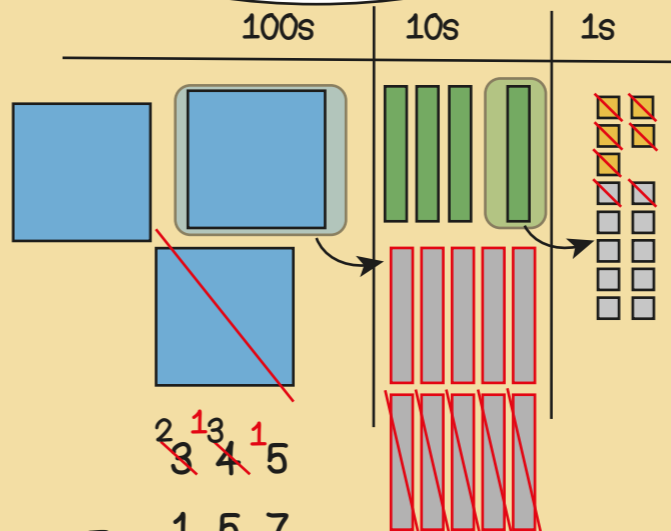


345 - 127
Exchanging tens



$$\begin{array}{r} 345 \\ - 127 \\ \hline 218 \end{array}$$

345 - 157
Exchanging in multiple columns



$$\begin{array}{r} 345 \\ - 157 \\ \hline 188 \end{array}$$

345 - 67
Different numbers of digits

$$\begin{array}{r} 345 \\ - 67 \\ \hline 278 \end{array}$$

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

In my head?
With jottings?
Formal written method?

388 + 199
348 + 140
348 + 51

348 - 199
348 - 140
348 - 23
308 - 297



100s	10s	1s
	3 bars	2 squares
3 blue squares	2 bars	

32 → x10 → 320

20 is ten times greater than 2
30 multiplied by ten is 300

60 x 4 = ?
If I know 6 x 4 = 24
then I know 60 x 4 = 240
because it is ten times greater

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

6 x 10 x 4 = 24 x 10

17 x 4

10 7

	10	7
4	40	28

multiplier
product
partition
dividend
divisor
remainder

17
x 4
—
68
2

100s	10s	1s
3 blue squares	2 bars	
	2 bars	2 squares

320 → ÷10 → 32

If I know 24 ÷ 4 = 6
then I know 240 ÷ 4 = 60

52 ÷ 4 = 40 ÷ 4 + 12 ÷ 4 = 10 + 3 = 13

30 is ten times smaller than 300
20 divided by ten is 2

If I know 24 ÷ 4 = 6
then I know 25 ÷ 4 = 6 r1

I know that 40 is 10 groups of 4

10 x 4 3 x 4

Year 3 Term 4

£5 and 55p

£5 50p 5p

50 + 20 + 20 + 20 + 10 = 120p
120p = £1 and 20p

spend pounds
pence
change

£5 subtract £2 and 65p
= £2 and 35p

+ 35p

£2 and 65p £3 £5

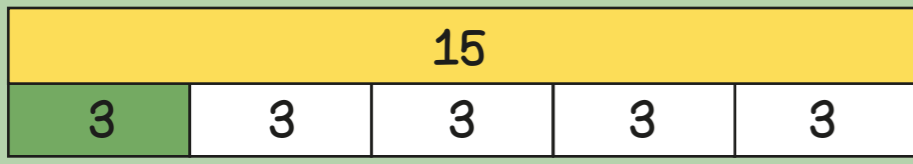
500
- 265
—
235

Use an efficient method!

I have £5 and spend £2 and 65p
How much change? £2 and 35p



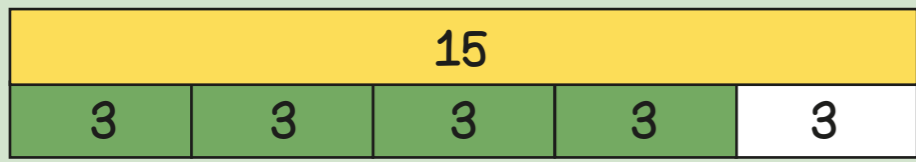
$\frac{1}{3}$ of 12 = 4
 $12 \div 3 = 4$



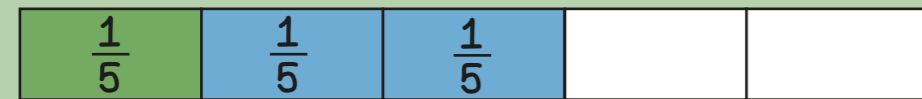
$\frac{1}{5}$ of 15 = 3
 $15 \div 5 = 3$



$\frac{1}{3}$ of 12 = 4
 $\frac{2}{3}$ of 12 = $2 \times 4 = 8$



$\frac{1}{5}$ of 15 = 3
 $\frac{4}{5}$ of 15 = $4 \times 3 = 12$



$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

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



$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

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

denominator
 numerator
 unit fraction
 non-unit fraction

Year 3 Term 5



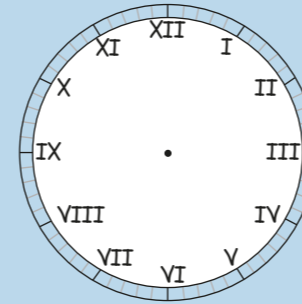
January - 31 days
 February - 28 or 29 days
 March - 31 days
 April - 30 days
 May - 31 days
 June - 30 days

July - 31 days
 August - 31 days
 September - 30 days
 October - 31 days
 November - 30 days
 December - 31 days

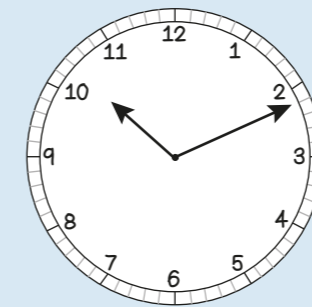
60 seconds = 1 minute
 120 seconds = 2 minutes
 180 seconds = 3 minutes

1 Year has 365 days but 1 leap year has 366 days.
 The extra day is in February, every 4 years.

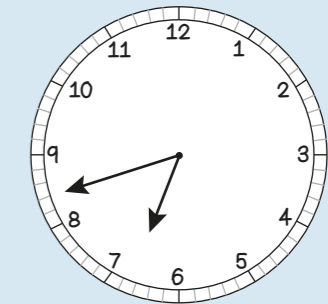
Leap year
 Roman numerals
 digital
 analogue



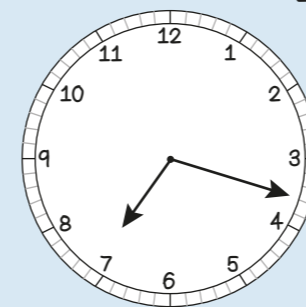
I	= 1	VII	= 7
II	= 2	VIII	= 8
III	= 3	IX	= 9
IV	= 4	X	= 10
V	= 5	XI	= 11
VI	= 6	XII	= 12



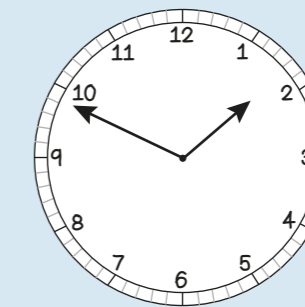
11 minutes past 10
 in the morning
 10:11 a.m.



18 minutes to 7
 in the morning
 6:42 a.m.

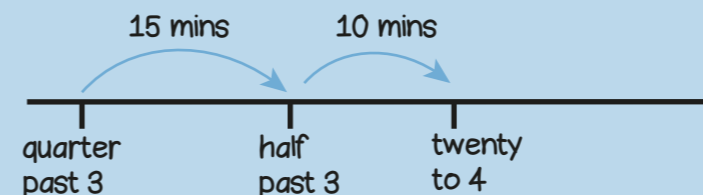


18 minutes past 7
 in the evening
 7:18 p.m.

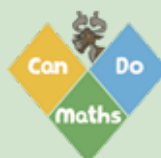
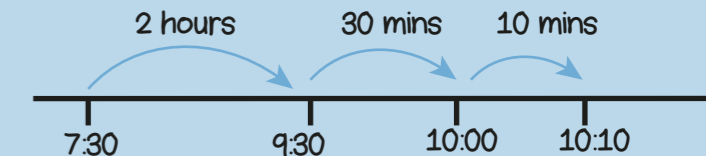


11 minutes to 2
 in the afternoon
 1:49 p.m.

From quarter past 3 to twenty to 4
 is 25 minutes



From 7:30 a.m. to 10:10 a.m.
 is 2 hours and 40 minutes



dogs	
cats	
mice	
rabbits	

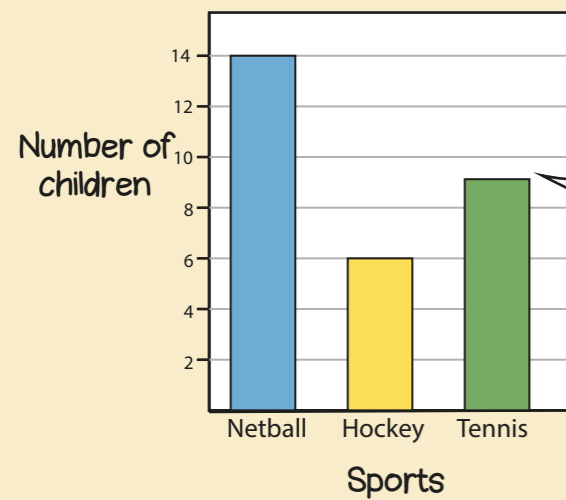
$4 + 4 + 4 = 12$ people own dogs

$4 + 4 + 2 = 10$ people own cats



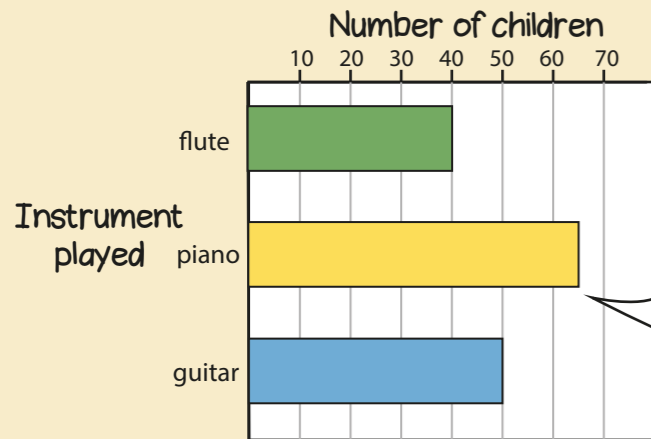
= 4 people

32 people were asked in total



9 children play tennis

table pictogram symbol represent bar chart

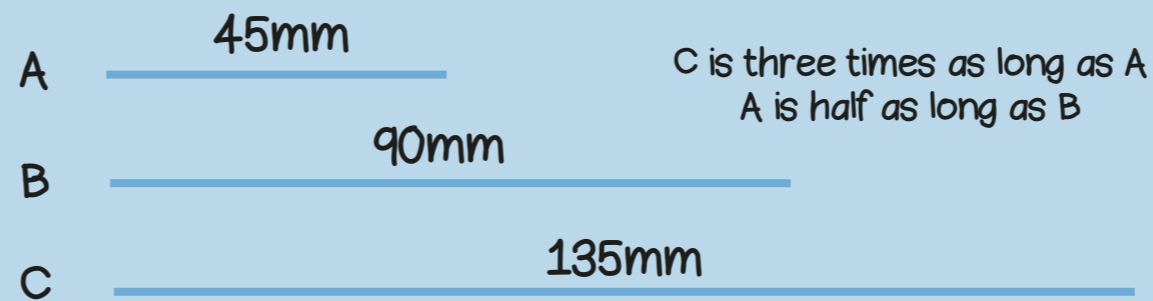


65 children play piano

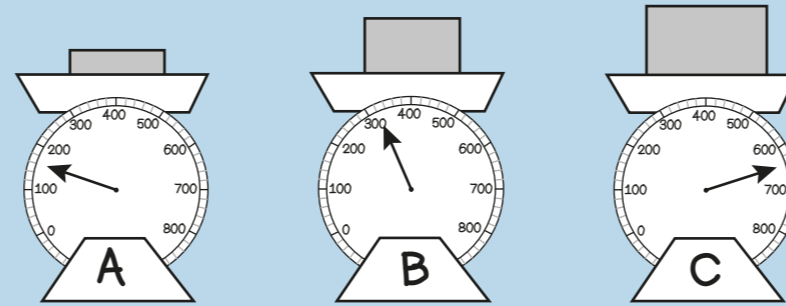
Sport	girls	boys
tennis	5	3
netball	4	7
football	8	6
rugby	6	8

4 girls play netball

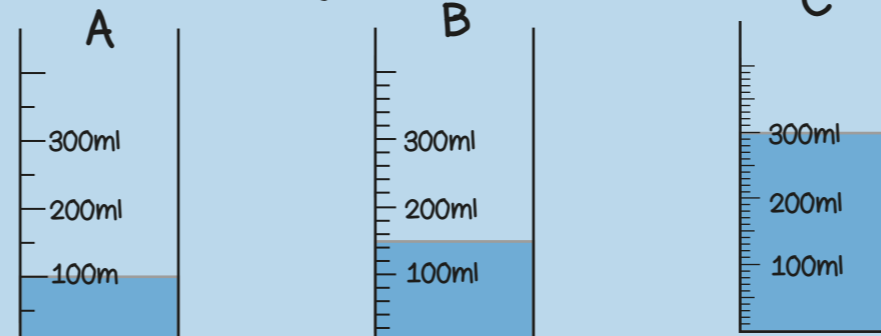
$8 - 6 = 2$
2 more boys than girls play rugby



C is three times as long as A
A is half as long as B

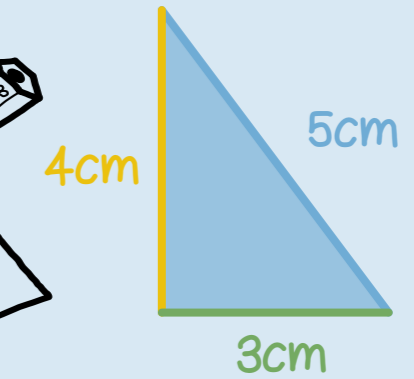


C weighs 4 times as much as A
A weighs half as much as B



C has three times as much as A
B has half as much as C

millimetres
centimetres
grams
millilitres
perimeter



Perimeter = $4 + 5 + 3 = 12$ cm



Perimeter = $38 + 24 + 38 + 24 = 124$ mm

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

Year 3 Term 6



The angle is the amount of turn



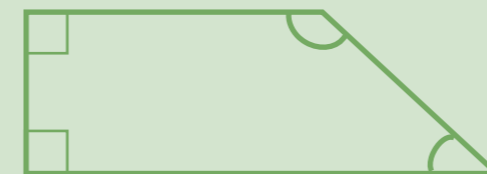
The angle is less than a right angle



The angle is more than a right angle



This shape has 2 right angles



This shape has 4 angles

angle
right angle
turn
quarter

One right angle makes one quarter turn



2 right angles make one half turn



3 right angles make three quarters of a turn

