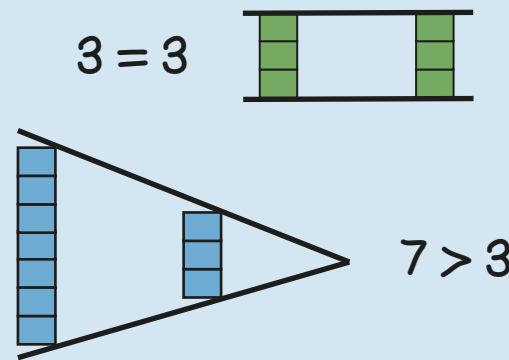


42
forty-two
4 tens and 2 ones

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

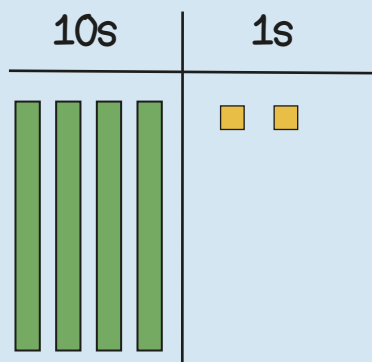


3 = 3
52 is more than 42
 $52 > 42$

42 is less than 52
 $42 < 52$

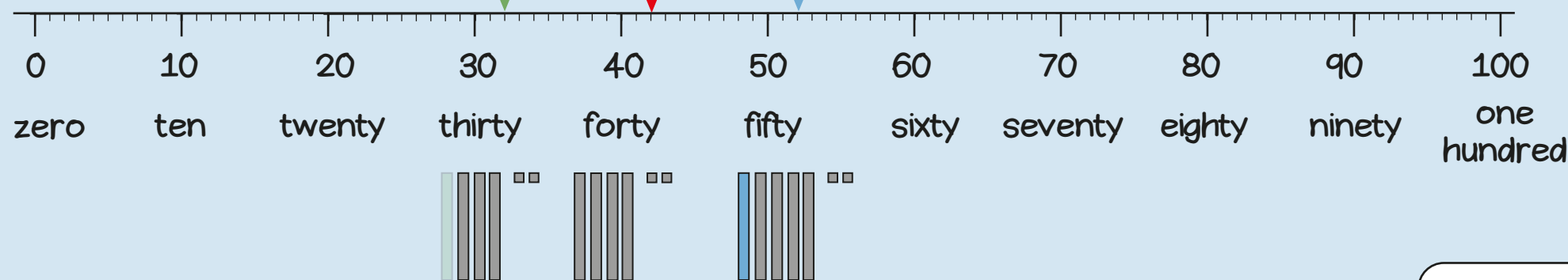
number
digit
less
greater
ones
tens

Stop and look.
What do you notice?

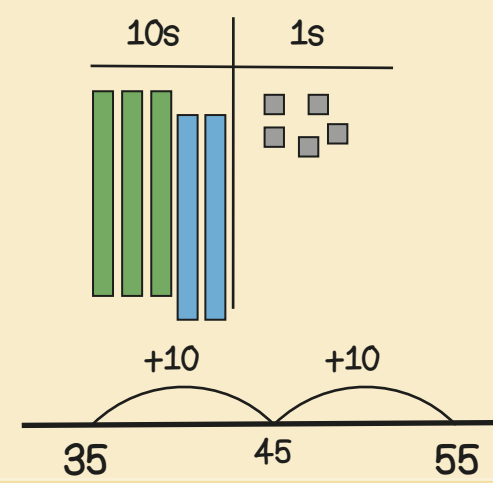


$42 = 40 + 2$
 $42 = 30 + 12$
 $42 = 20 + 22$
 $42 = 10 + 32$

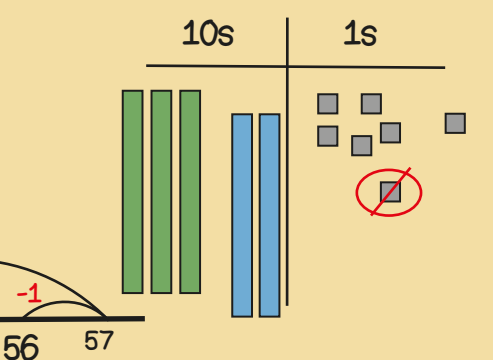
10 less than 42 is 32
10 more than 42 is 52



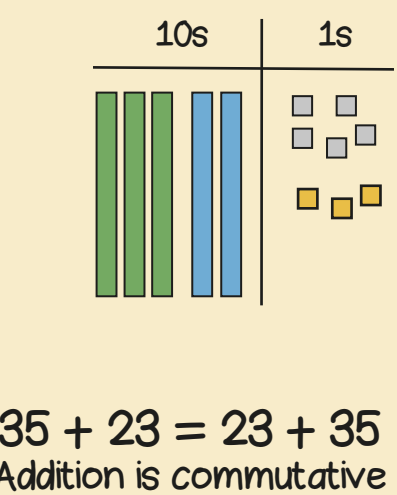
35 + 20
Add multiples of ten
If I know 3 + 2 then I also know...



37 + 19
Round then adjust
Add 20 then subtract 1



35 + 23
Partition and recombine
addend
sum
plus
total



Year 2 Term 1

Pentagons - 5 straight sides

Hexagons - 6 straight sides

Octagons - 8 straight sides

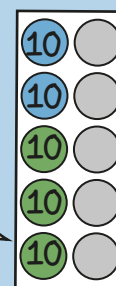
A vertex is the corner of a 3D shape. This cube has 8 vertices.
An edge joins 2 vertices. This cube has 12 edges.
The flat surface is a face. This cube has 6 faces.

10	10 - 0									
9	10 - 1	9 - 0								
8	10 - 2	9 - 1	8 - 0							
7	10 - 3	9 - 2	8 - 1	7 - 0						
6	10 - 4	9 - 3	8 - 2	7 - 1	6 - 0					
5	10 - 5	9 - 4	8 - 3	7 - 2	6 - 1	5 - 0				
4	10 - 6	9 - 5	8 - 4	7 - 3	6 - 2	5 - 1	4 - 0			
3	10 - 7	9 - 6	8 - 5	7 - 4	6 - 3	5 - 2	4 - 1	3 - 0		
2	10 - 8	9 - 7	8 - 6	7 - 5	6 - 4	5 - 3	4 - 2	3 - 1	2 - 0	
1	10 - 9	9 - 8	8 - 7	7 - 6	6 - 5	5 - 4	4 - 3	3 - 2	2 - 1	1 - 0
0	10 - 10	9 - 9	8 - 8	7 - 7	6 - 6	5 - 5	4 - 4	3 - 3	2 - 2	1 - 1

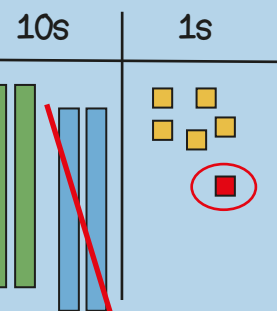
Subtraction Facts



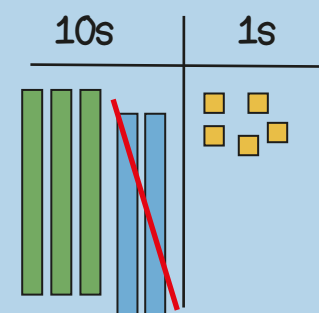
If I know $5 - 2 = 3$
then I also know
 $50 - 20 = 30$



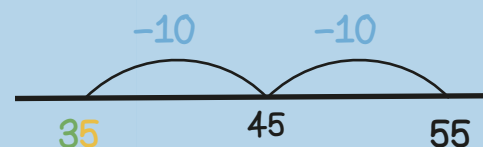
$56 - 19$
Round then adjust



$55 - 20$
Subtract multiples of ten



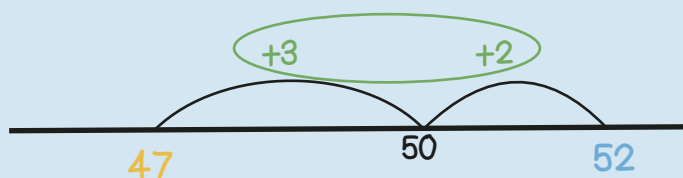
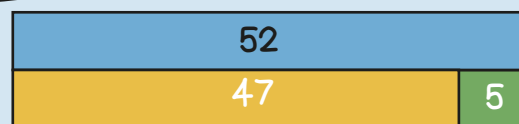
Subtract 20 then **add 1**
 $56 - 20 = 36$
 $36 + 1 = 37$



$52 - 47$
Find the difference between
two numbers

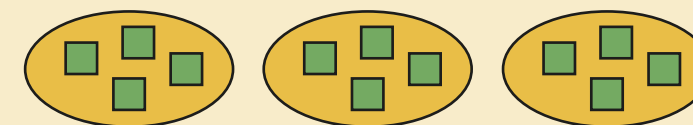
Stop and look.
What do you notice?

$52 - 47 = \bigcirc$
 $47 + \bigcirc = 52$

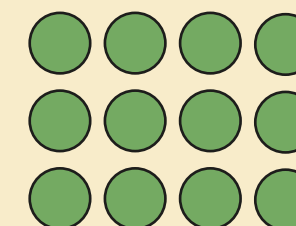
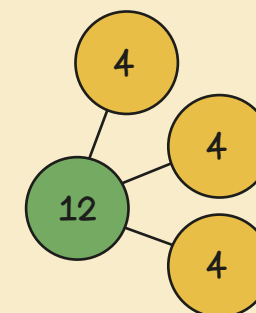


$52 - 47$ is not equal to $47 - 52$
Subtraction is not commutative

subtract
difference
commutative



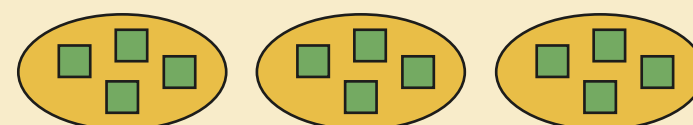
Three groups of four
 $4 + 4 + 4 = 12$



4 multiplied by 3
 $4 \times 3 = 12$

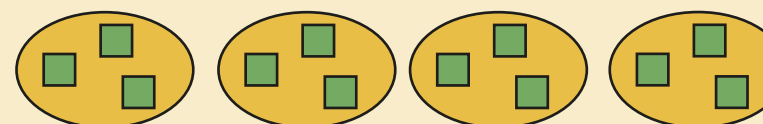
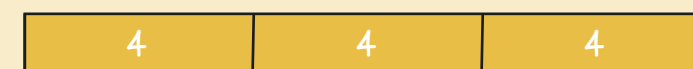
3 groups of 4
 $3 \times 4 = 12$

multiply
equal
share
group
divide

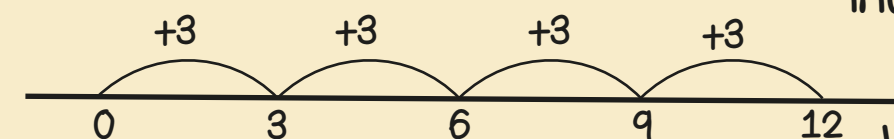


$12 \div 3 = 4$

12 divided equally
into 3 groups



$12 \div 3 = 4$
12 divided equally
into groups of 3

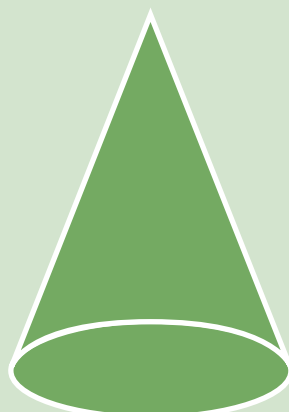
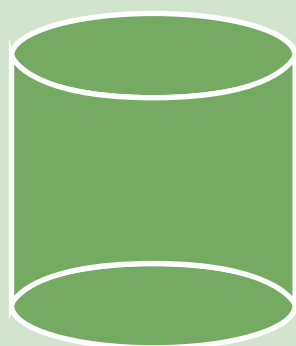


How many 3s
in twelve?

Year 2 Term 2

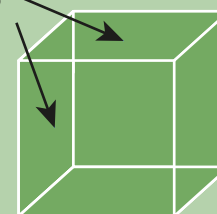


A cylinder is a 3-D shape
with circles at both ends

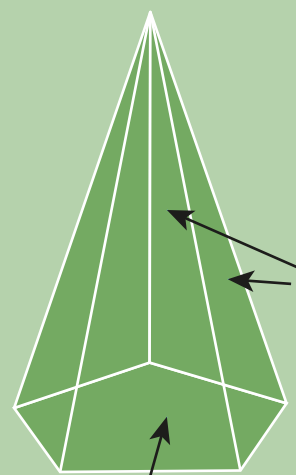


A cone is a 3-D shape with a
circular base and a curved
surface that meets at a
point

All faces are
squares



Some faces are
triangles

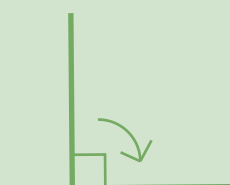


This face is a
pentagon

Clockwise



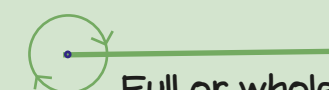
Anti-clockwise



1 right angle turn
or 1 quarter turn
clockwise



2 right angle turns
or 1 half turn
anti-clockwise



Full or whole turn
clockwise

cylinder
face
cone
clockwise
anti-clockwise

3 right angle turns or
3 quarter turns
anti-clockwise



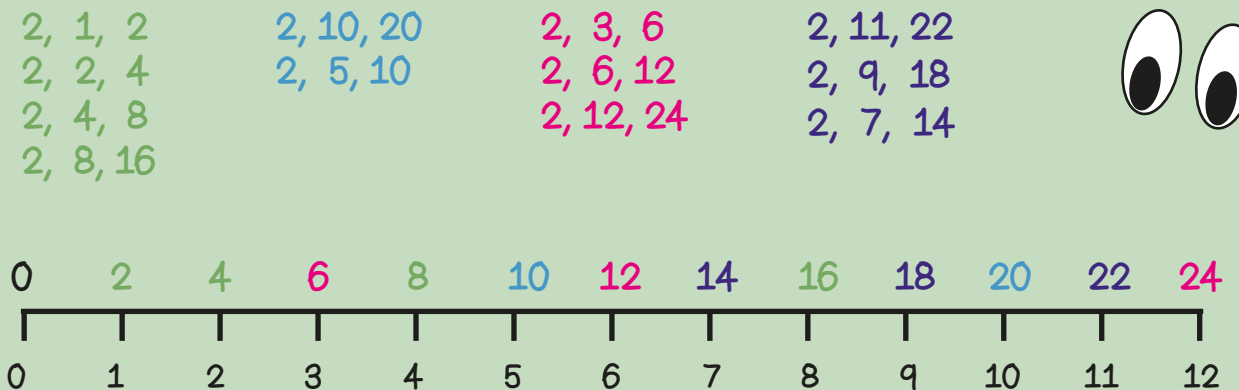
You CanDo all the multiplication facts of 2.

0	x 2	= 0	= 2 x 0
1	x 2	= 2	= 2 x 1
2	x 2	= 4	= 2 x 2
3	x 2	= 6	= 2 x 3
4	x 2	= 8	= 2 x 4
5	x 2	= 10	= 2 x 5
6	x 2	= 12	= 2 x 6
7	x 2	= 14	= 2 x 7
8	x 2	= 16	= 2 x 8
9	x 2	= 18	= 2 x 9
10	x 2	= 20	= 2 x 10
11	x 2	= 22	= 2 x 11
12	x 2	= 24	= 2 x 12

Can Do Tables

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Factor, factor, product



There is a repeating pattern of 0, 2, 4, 6, 8

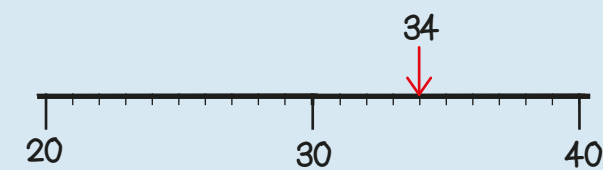
Even numbers are divisible by 2



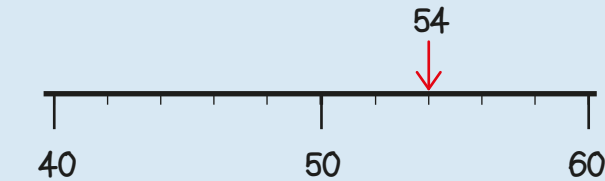
$2 \times 5 = 10$	$5 \times 2 = 10$
$10 = 2 \times 5$	$10 = 5 \times 2$
$10 \div 2 = 5$	$10 \div 5 = 2$
$5 = 10 \div 2$	$2 = 10 \div 5$

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

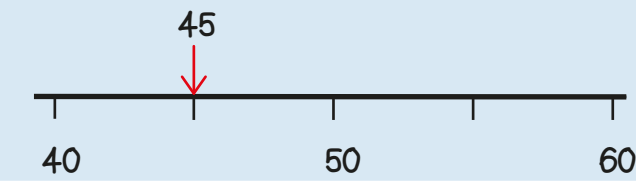
If there are 10 steps to increase by 10 then the scale is going up in 1s.



If there are 5 steps to increase by 10 then the scale goes up in 2s.



If there are 2 steps to increase by 10 then the scale goes up in 5s.



You CanDo all the multiplication facts of 10.

0	x 10	= 0	= 10 x 0
1	x 10	= 10	= 10 x 1
2	x 10	= 20	= 10 x 2
3	x 10	= 30	= 10 x 3
4	x 10	= 40	= 10 x 4
5	x 10	= 50	= 10 x 5
6	x 10	= 60	= 10 x 6
7	x 10	= 70	= 10 x 7
8	x 10	= 80	= 10 x 8
9	x 10	= 90	= 10 x 9
10	x 10	= 100	= 10 x 10
11	x 10	= 110	= 10 x 11
12	x 10	= 120	= 10 x 12

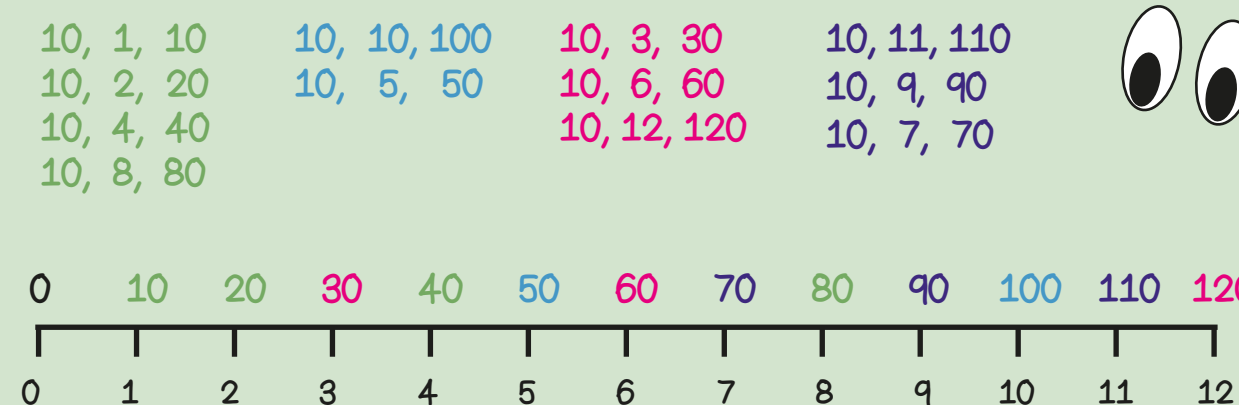
Can Do Tables

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multiple factor product odd even

Multiples of 10 all have a zero in the ones column.

The products of 10 are even numbers.



Year 2 Term 3

You CanDo all the multiplication facts of 5.

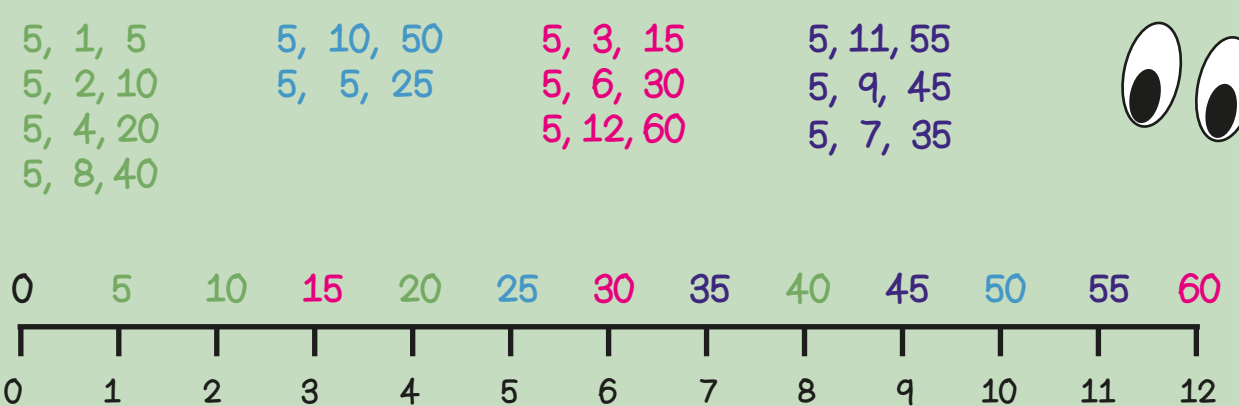
0	x 5	= 0	= 5 x 0
1	x 5	= 5	= 5 x 1
2	x 5	= 10	= 5 x 2
3	x 5	= 15	= 5 x 3
4	x 5	= 20	= 5 x 4
5	x 5	= 25	= 5 x 5
6	x 5	= 30	= 5 x 6
7	x 5	= 35	= 5 x 7
8	x 5	= 40	= 5 x 8
9	x 5	= 45	= 5 x 9
10	x 5	= 50	= 5 x 10
11	x 5	= 55	= 5 x 11
12	x 5	= 60	= 5 x 12

Can Do Tables

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The product of an odd number and 5 is odd.

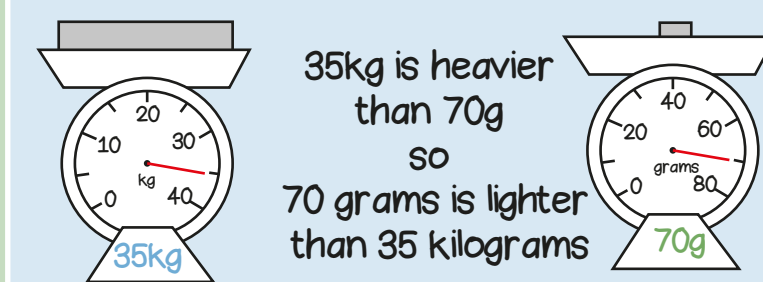
The product of an even number and 5 is even.



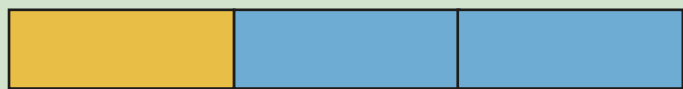
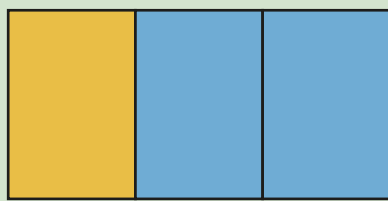
Tree A is taller than tree B so tree B is shorter than tree A.



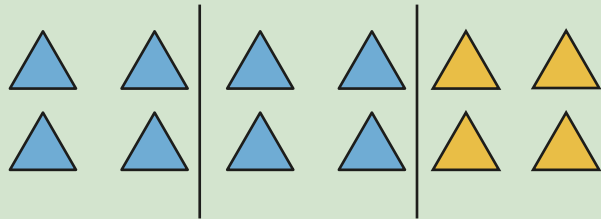
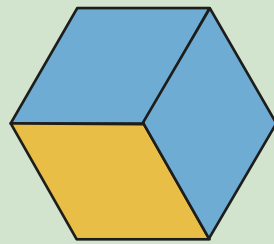
The yellow line is longer than the green line so the green line is shorter than the yellow line.



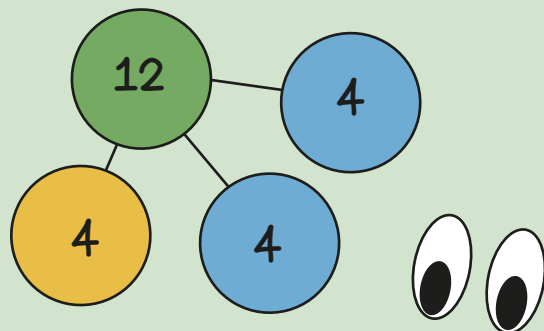
One third is one of three equal parts



$\frac{1}{3}$ of the whole is yellow

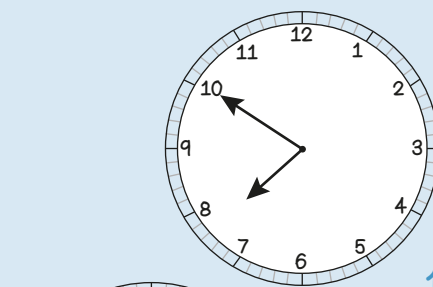


Share equally into 3 groups



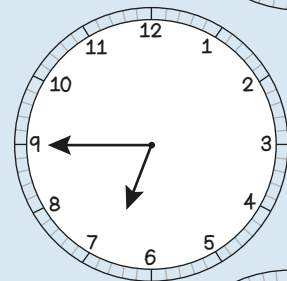
60 minutes = 1 hour

24 hours = 1 day



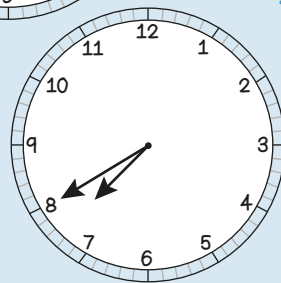
5 minutes to 8

10 minutes to 8

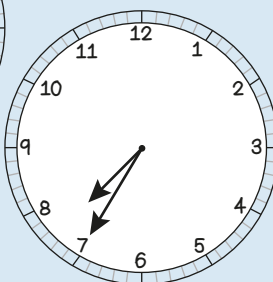


quarter to 8

20 minutes to 8



25 minutes to 8



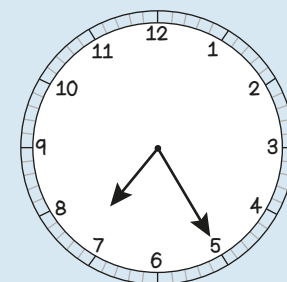
5 minutes past 7

10 minutes past 7

quarter past 7

20 minutes past 7

25 minutes past 7

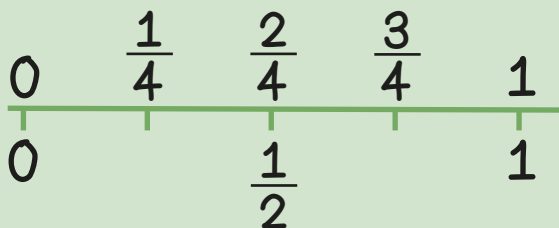
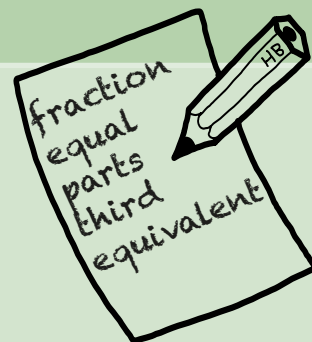
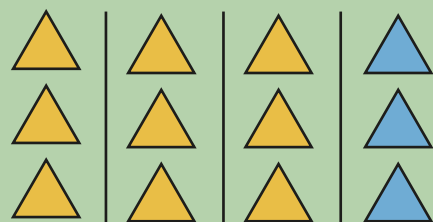


Year 2 Term 4

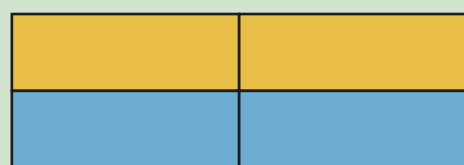


$\frac{3}{4}$ of the whole is yellow

3 of 4 equal parts



Two quarters are equivalent to one half

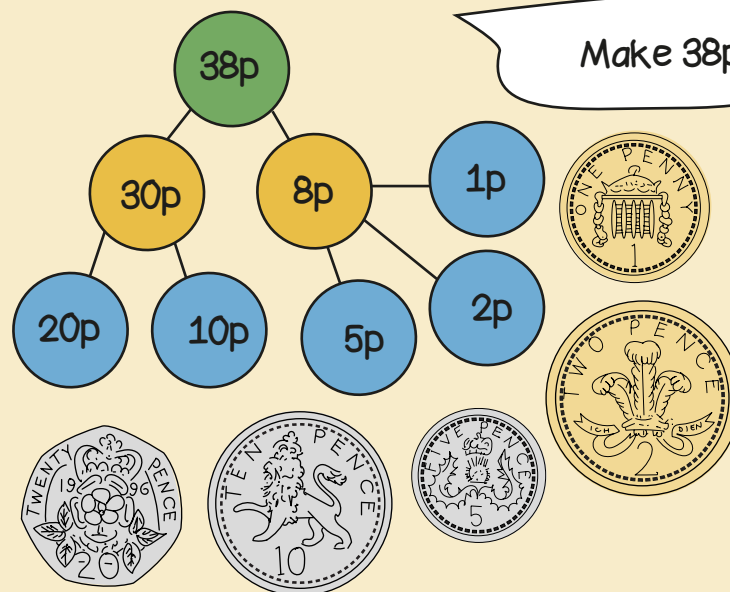


$\frac{2}{4}$ of the whole is yellow

$\frac{1}{2}$ of the whole is yellow



Make 38p



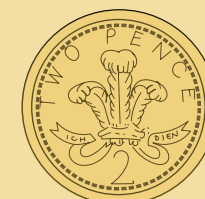
12p change from 50p



Spend 38p



62p change from £1



£5 + £10 = £15

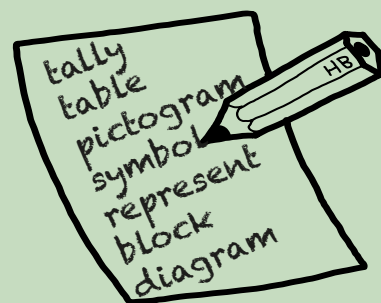


70p in different ways



Pet	total
dogs	6
cats	4
mice	5
rabbits	1

6 people own dogs



Pet	tally	total
cheese		10
egg		20
ham		15
salad		5

Year 2 Term 5



dogs	▲ ▲ ▲ ▲ ▲ ▲
cats	▲ ▲ ▲ ▲
mice	▲ ▲ ▲ ▲ ▲
rabbits	▲

▲ = 1 person

6 people own dogs.

16 people were asked in total.

dogs	■ ■ ■
cats	■ ■
mice	■ ■ ■
rabbits	■

■ = 2 people

cheese	● ●
egg	● ● ● ●
ham	● ● ●
salad	●

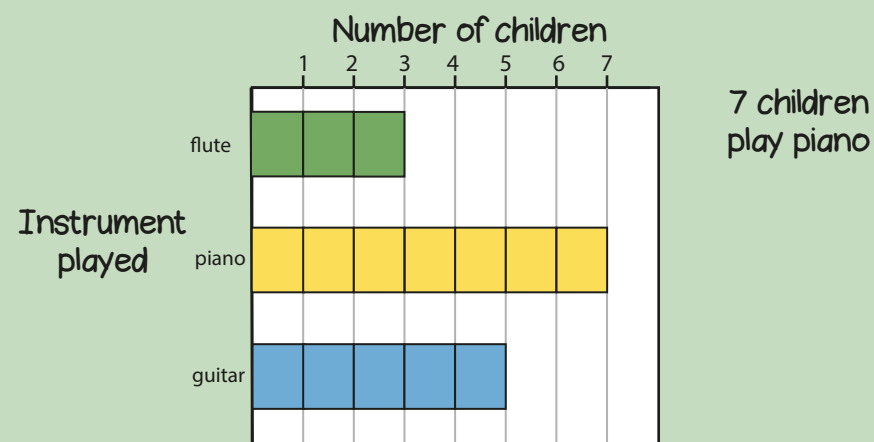
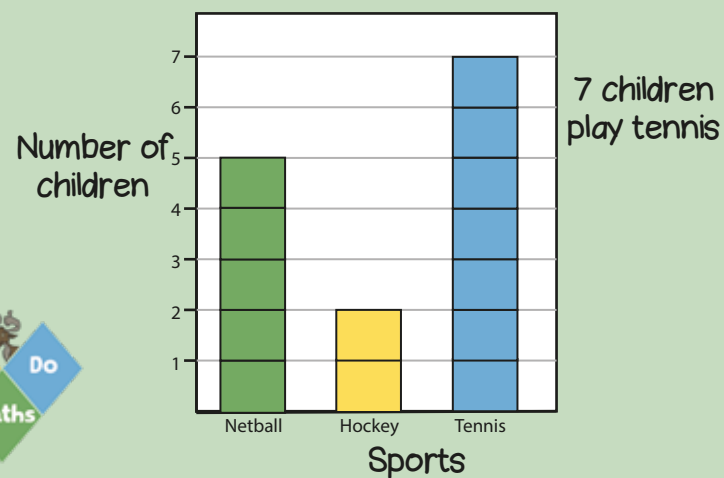
● = 5 people

15 people like ham the best.

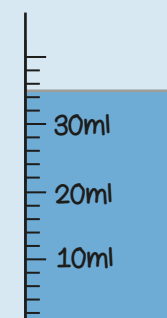
50 people were asked in total.

cheese	★
egg	★ ★
ham	★ ▶
salad	▶

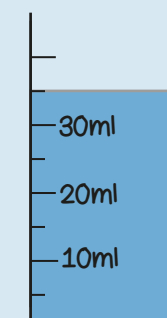
★ = 10 people



If there are 10 steps to increase by 10 then the scale is going up in 1s.



If there are 5 steps to increase by 10 then the scale goes up in 2s.



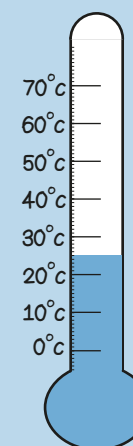
If there are 2 steps to increase by 10 then the scale goes up in 5s.



1 litre > 5 millilitres



The bottle has a greater capacity than the teaspoon



25°C is hotter than 20°C
so
20°C is colder than 25°C

