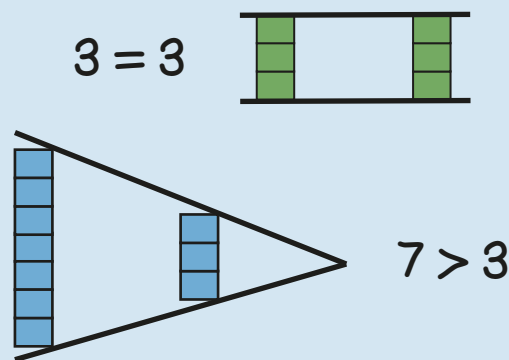


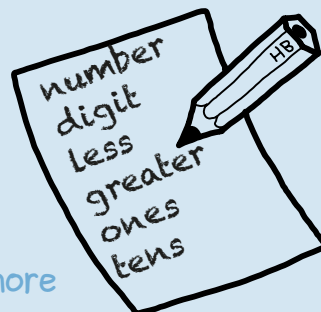
42  
forty-two  
4 tens and 2 ones

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

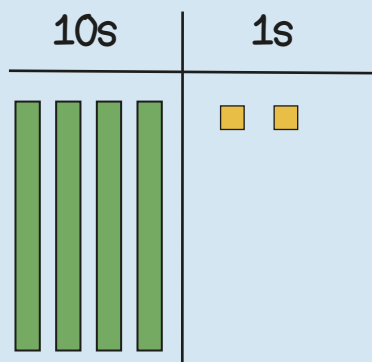


3 = 3  
52 is more than 42  
 $52 > 42$

42 is less than 52  
 $42 < 52$



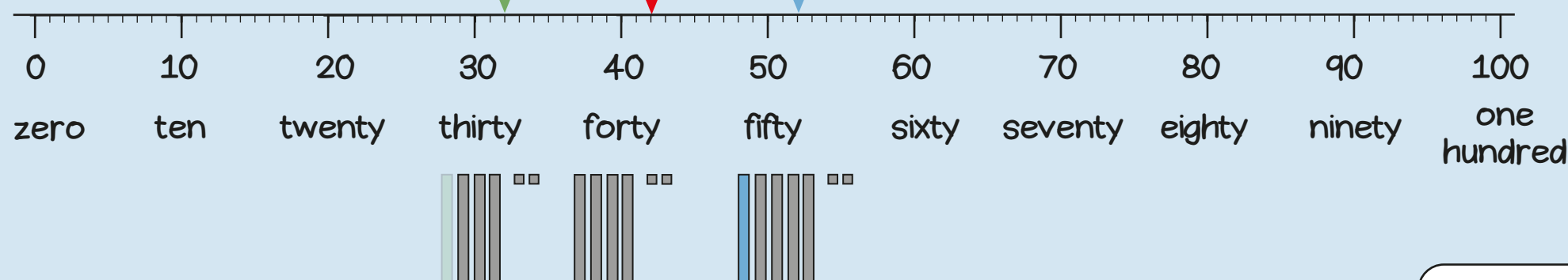
Stop and look.  
What do you notice?



$$\begin{aligned} 42 &= 40 + 2 \\ 42 &= 30 + 12 \\ 42 &= 20 + 22 \\ 42 &= 10 + 32 \end{aligned}$$

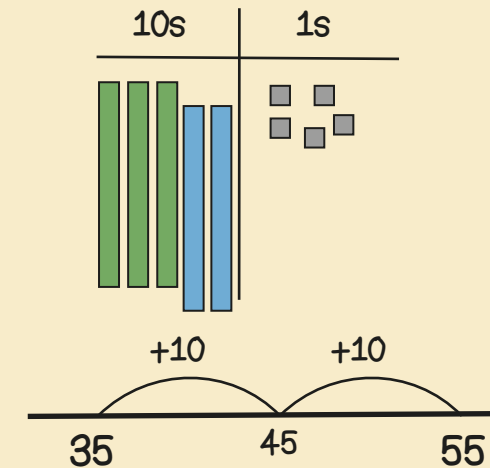
10 less 10 more

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



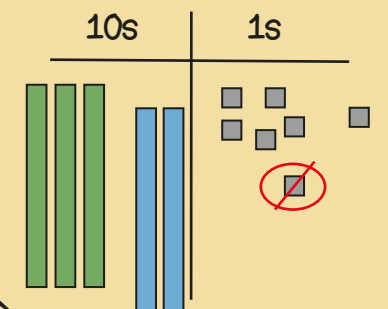
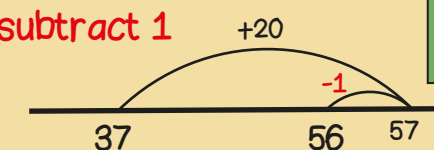
35 + 20  
Add multiples of ten

If I know 3 + 2  
then I also know...



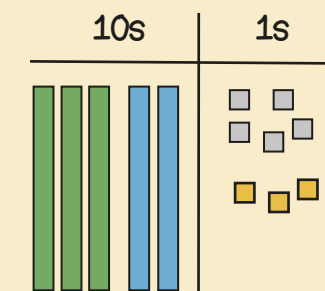
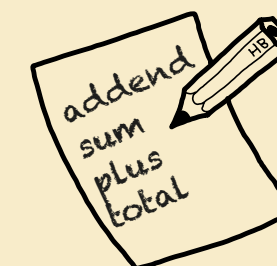
37 + 19  
Round then adjust

Add 20 then subtract 1



35 + 23  
Partition and recombine

$$\begin{aligned} 35 + 23 &= (30 + 5) + (20 + 3) \\ &= (30 + 20) + (5 + 3) \\ &= 50 + 8 = 58 \end{aligned}$$

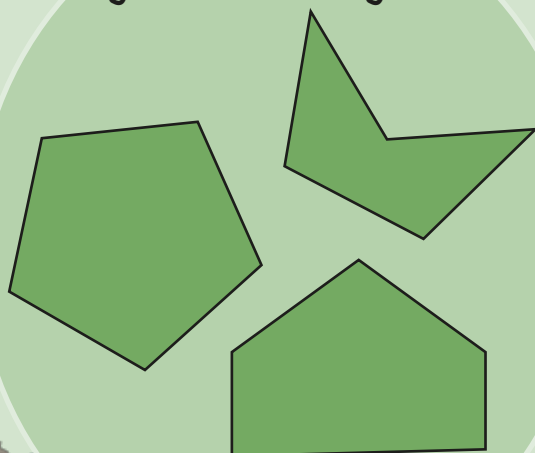


35 + 23 = 23 + 35  
Addition is commutative

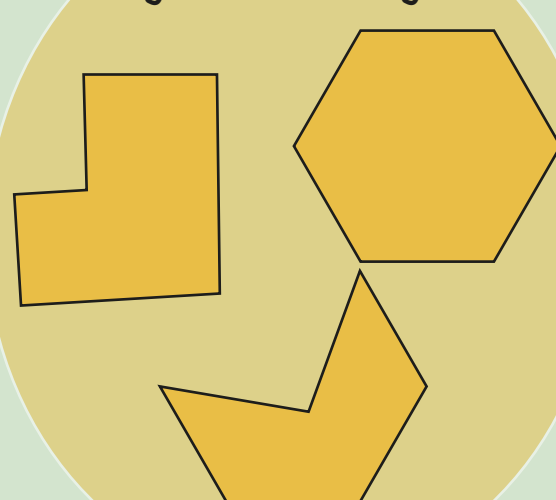
Year 2 Term 1



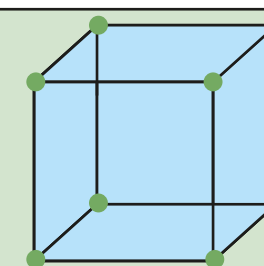
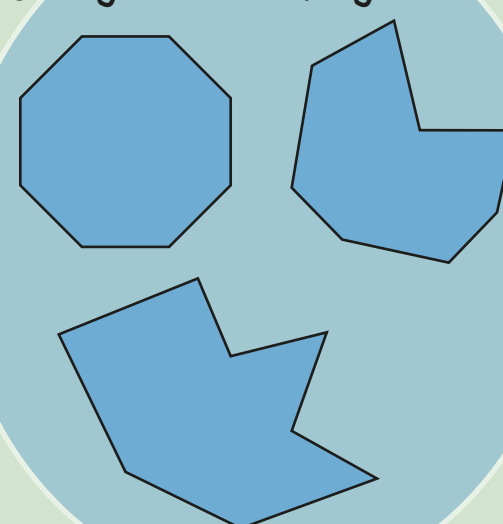
Pentagons - 5 straight sides



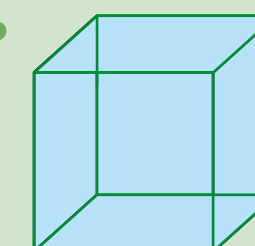
Hexagons - 6 straight sides



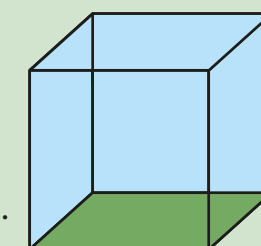
Octagons - 8 straight sides



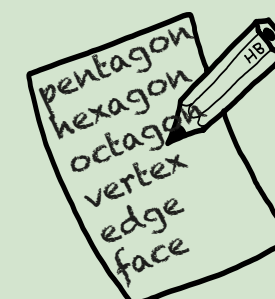
A vertex is the corner of a 3D shape.  
This cube has 8 vertices.



An edge joins 2 vertices.  
This cube has 12 edges.



The flat surface is a face.  
This cube has 6 faces.

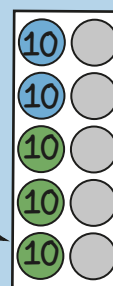


10	10 - 0									
9	10 - 1	9 - 0								
8	10 - 2	9 - 1	8 - 0							
7	10 - 3	9 - 2	8 - 1	7 - 0						
6	10 - 4	9 - 3	8 - 2	7 - 1	6 - 0					
5	10 - 5	9 - 4	8 - 3	7 - 2	6 - 1	5 - 0				
4	10 - 6	9 - 5	8 - 4	7 - 3	6 - 2	5 - 1	4 - 0			
3	10 - 7	9 - 6	8 - 5	7 - 4	6 - 3	5 - 2	4 - 1	3 - 0		
2	10 - 8	9 - 7	8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

Subtraction Facts

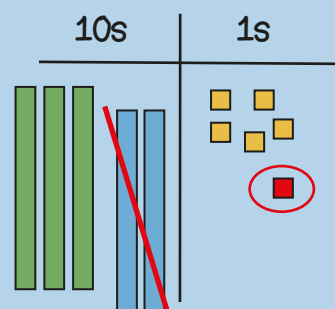
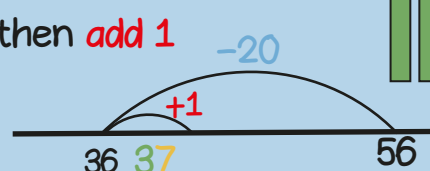


If I know  $5 - 2 = 3$   
then I also know  
 $50 - 20 = 30$

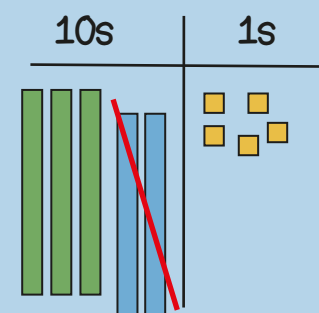
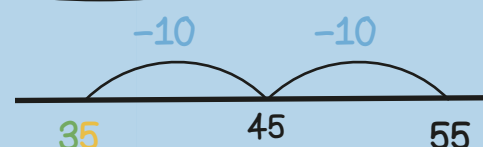


$56 - 19$   
Round then adjust

Subtract 20 then **add 1**



$55 - 20$   
Subtract multiples of ten

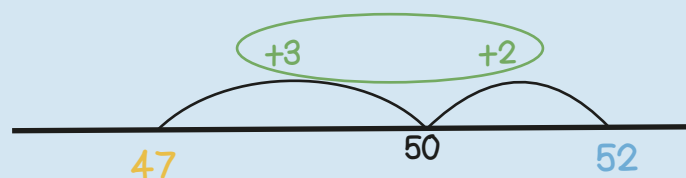
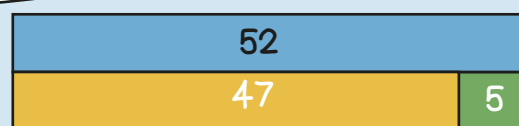


$52 - 47$   
Find the difference between  
two numbers

Stop and look.  
What do you notice?

$$52 - 47 = \bigcirc$$

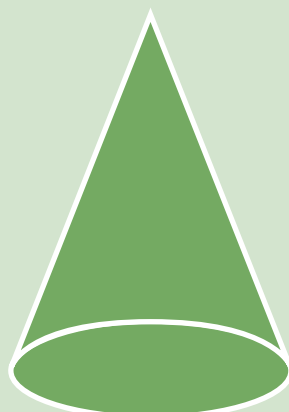
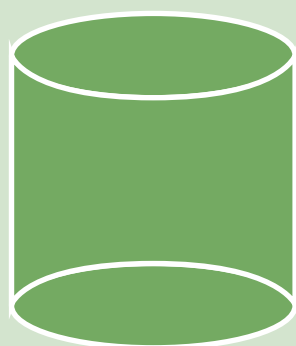
$$47 + \bigcirc = 52$$



subtract  
difference  
commutative

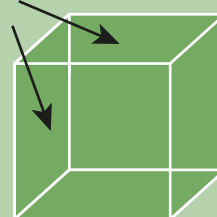
$52 - 47$  is not equal to  $47 - 52$   
Subtraction is not commutative

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

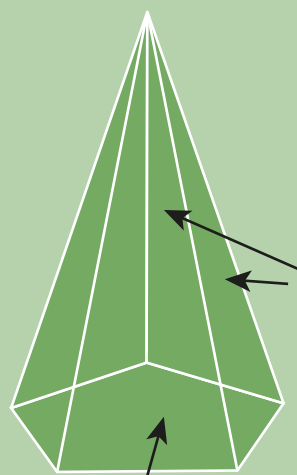


A cone is a 3-D shape with a  
circular base and a curved  
surface that meets at a  
point

All faces are  
squares



Some faces are  
triangles



This face is a  
pentagon

cylinder  
face  
cone  
clockwise  
anti-clockwise

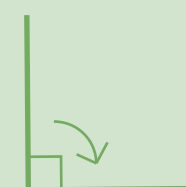
Clockwise



Anti-clockwise



1 right angle turn  
or 1 quarter turn  
clockwise



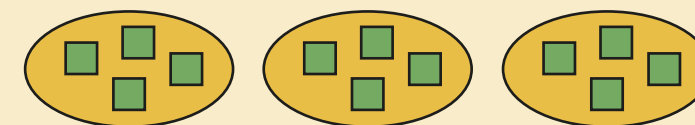
3 right angle turns or  
3 quarter turns  
anti-clockwise



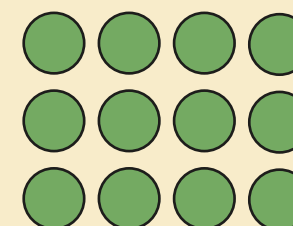
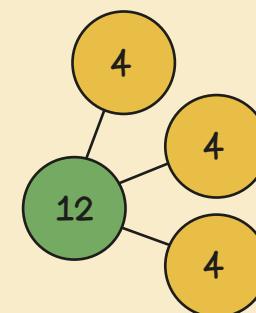
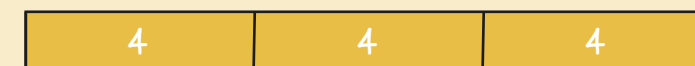
2 right angle turns  
or 1 half turn  
anti-clockwise



Full or whole turn  
clockwise



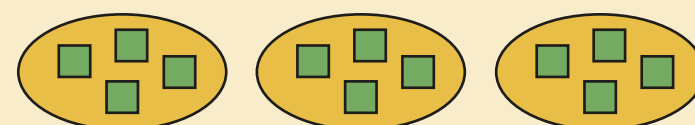
Three groups of four  
 $4 + 4 + 4 = 12$



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

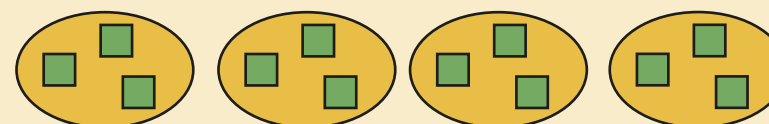
3 groups of 4  
 $3 \times 4 = 12$

multiply  
equal  
share  
group  
divide



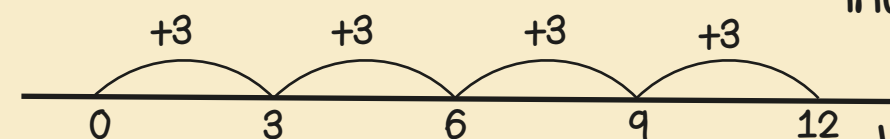
$12 \div 3 = 4$

12 divided equally  
into 3 groups



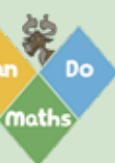
$12 \div 3 = 4$

12 divided equally  
into groups of 3



How many 3s  
in twelve?

Year 2 Term 2



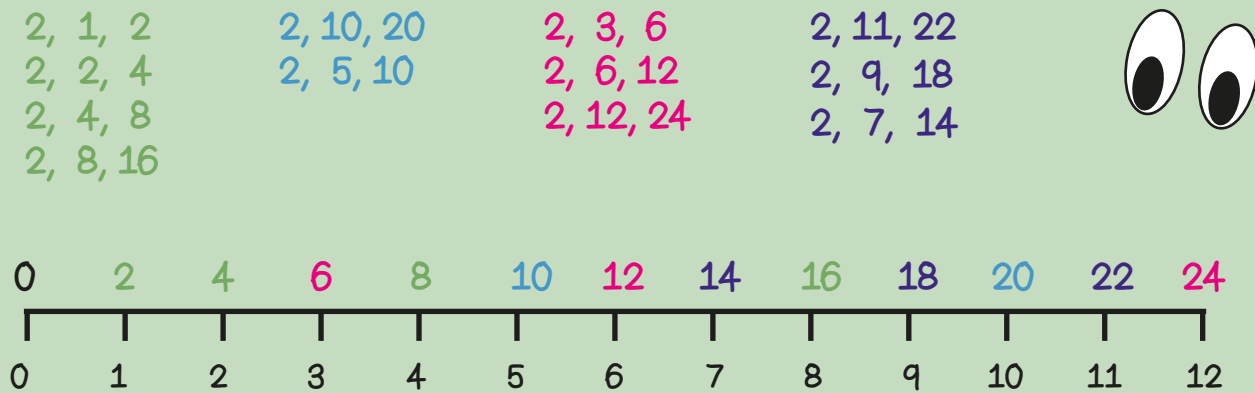
You CanDo all the multiplication facts of 2.

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...

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

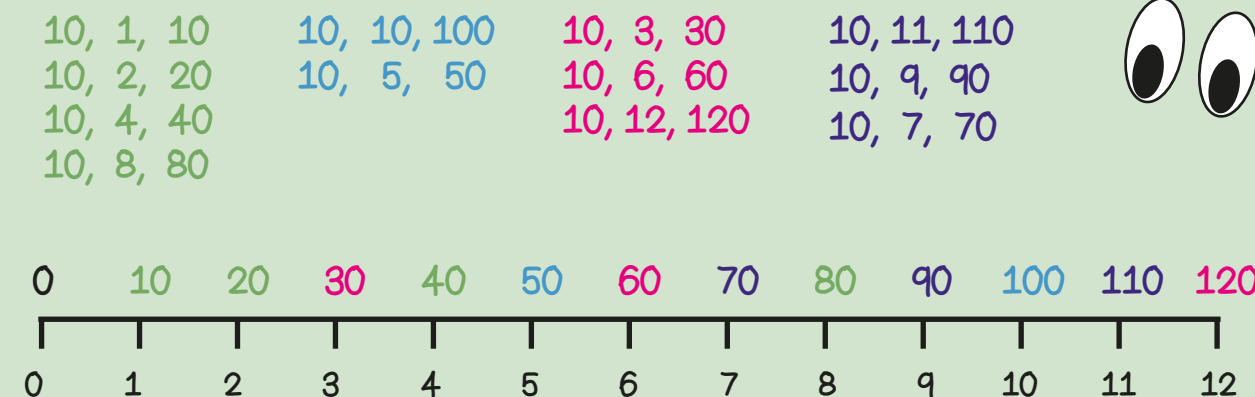
Can Do Tables

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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.

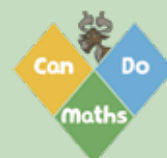
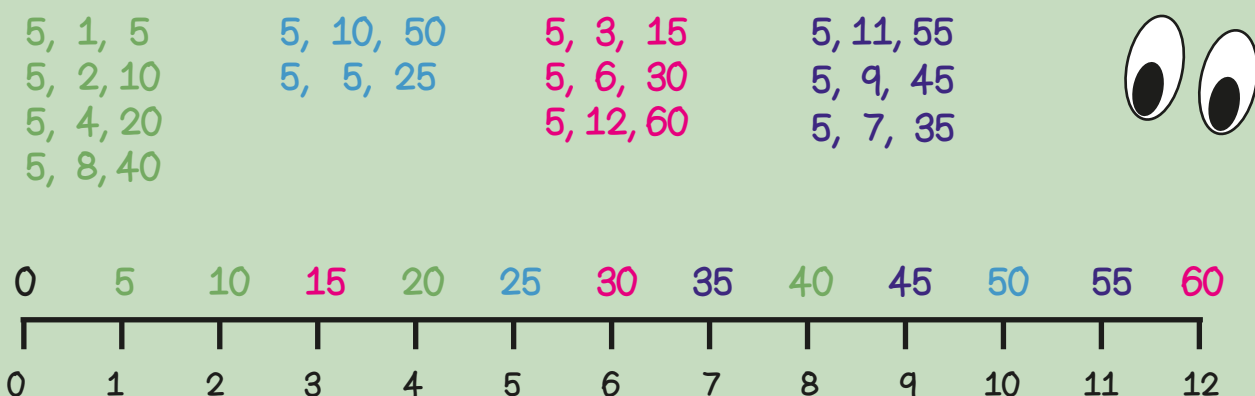
0	x 5	= 0	= 5 x 0
1	x 5	= 5	= 5 x 1
2	x 5	= 10	= 5 x 2
3	x 5	= 15	= 5 x 3
4	x 5	= 20	= 5 x 4
5	x 5	= 25	= 5 x 5
6	x 5	= 30	= 5 x 6
7	x 5	= 35	= 5 x 7
8	x 5	= 40	= 5 x 8
9	x 5	= 45	= 5 x 9
10	x 5	= 50	= 5 x 10
11	x 5	= 55	= 5 x 11
12	x 5	= 60	= 5 x 12

Can Do Tables

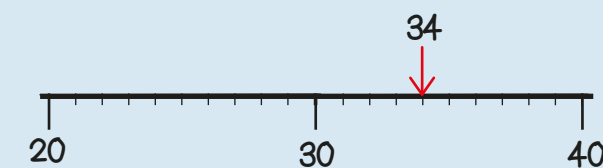
www.buzzardpublishing.com

The product of an odd number and 5 is odd.

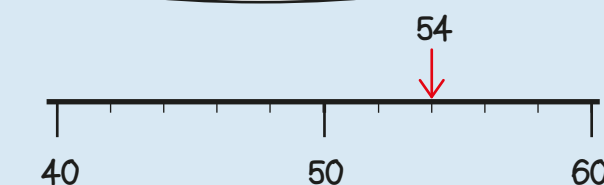
The product of an even number and 5 is even.



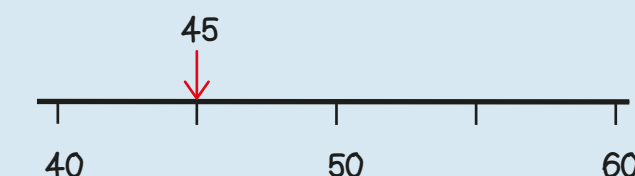
If there are 10 steps to increase by 10 then the scale is going up in 1s.



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



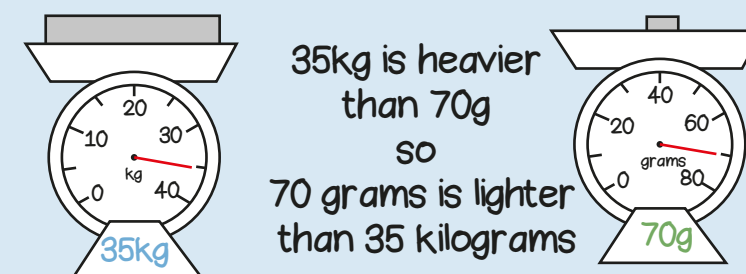
If there are 2 steps to increase by 10 then the scale goes up in 5s.



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

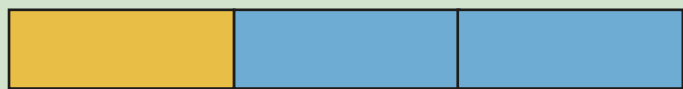
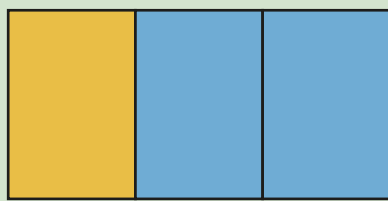


The yellow line is longer than the green line so the green line is shorter than the yellow line.

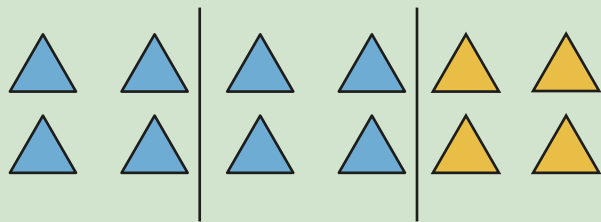
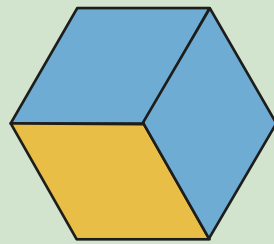




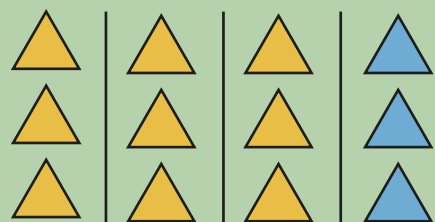
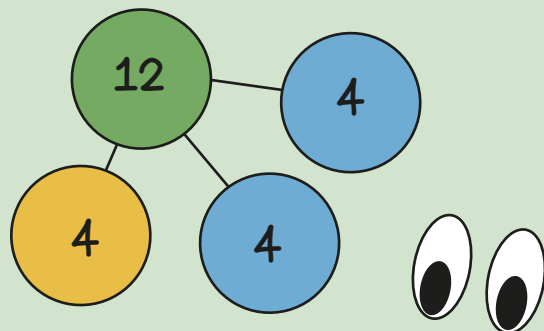
One third is one of three equal parts



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

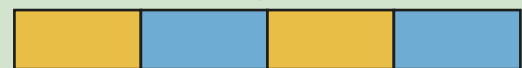
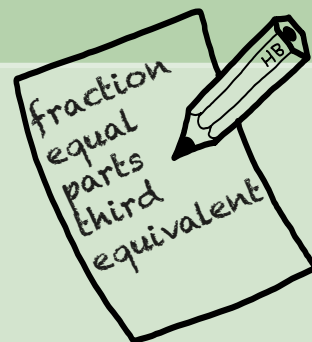
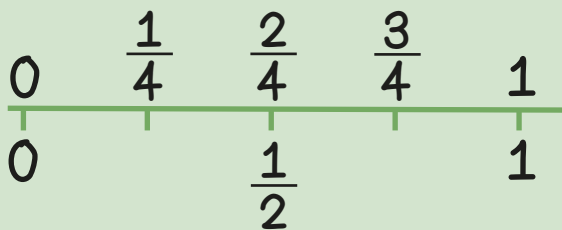


Share equally into 3 groups

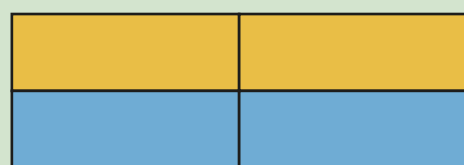


$\frac{3}{4}$  of the whole is yellow

3 of 4 equal parts

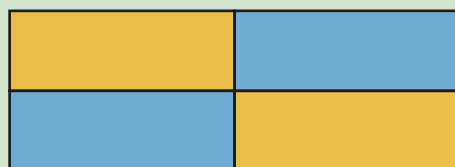


Two quarters are equivalent to one half



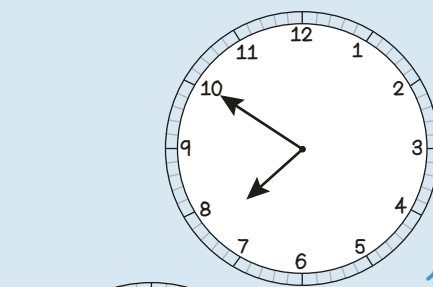
$\frac{2}{4}$  of the whole is yellow

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



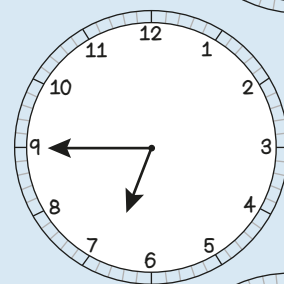
60 minutes = 1 hour

24 hours = 1 day



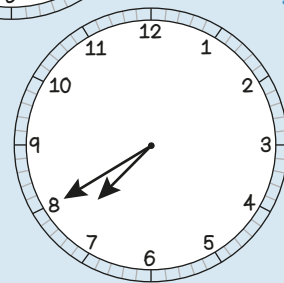
5 minutes to 8

10 minutes to 8

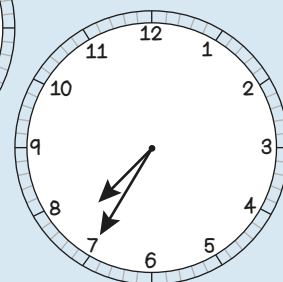


quarter to 8

20 minutes to 8



25 minutes to 8

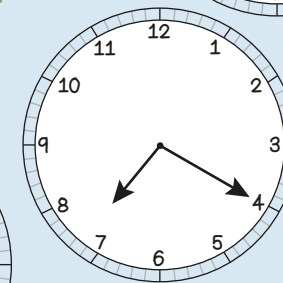
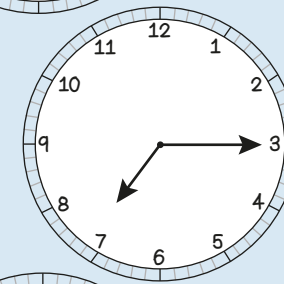
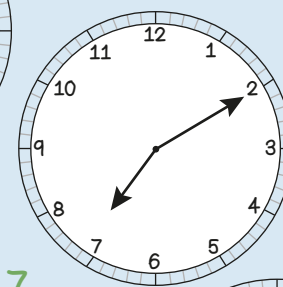


5 minutes past 7

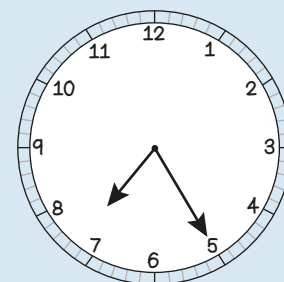
10 minutes past 7

quarter past 7

20 minutes past 7



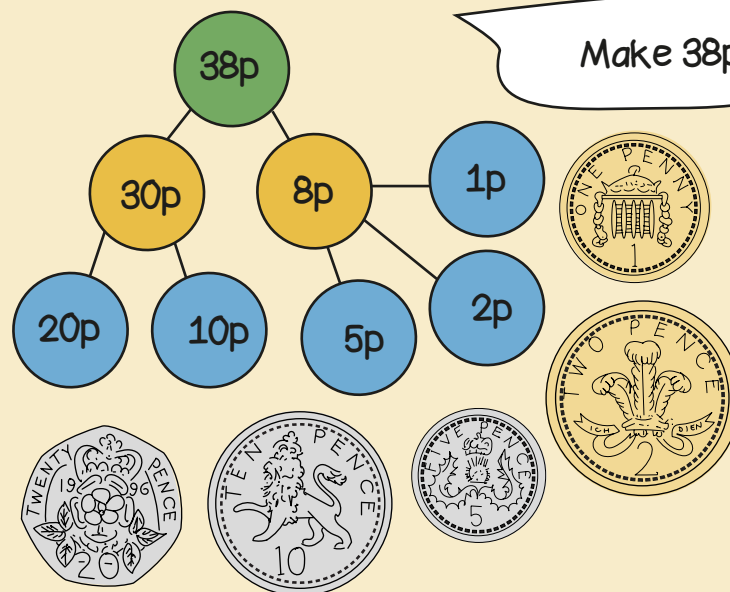
25 minutes past 7



Year 2 Term 4



Make 38p



£5 + £10 = £15



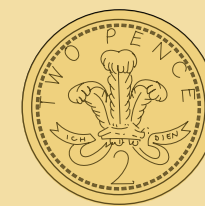
70p in different ways



12p change from 50p

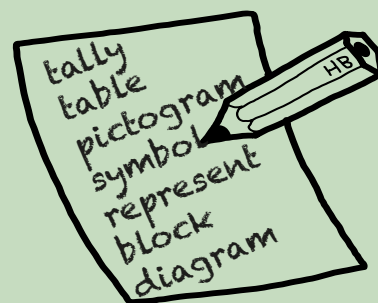
Spend 38p

62p change from £1



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	●

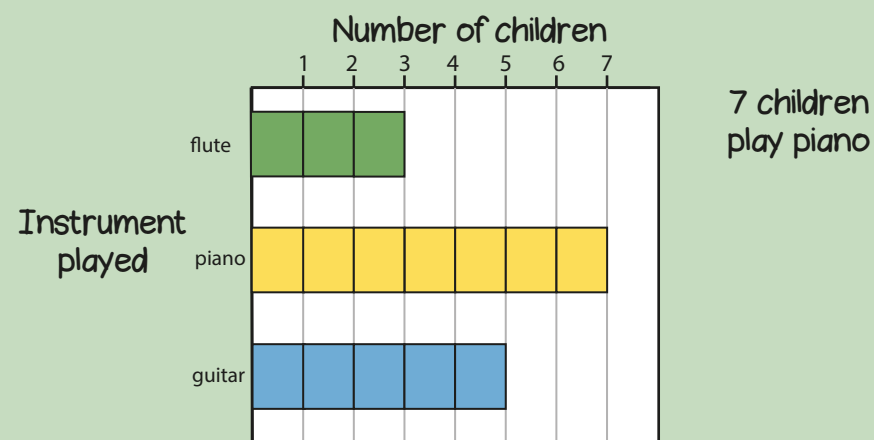
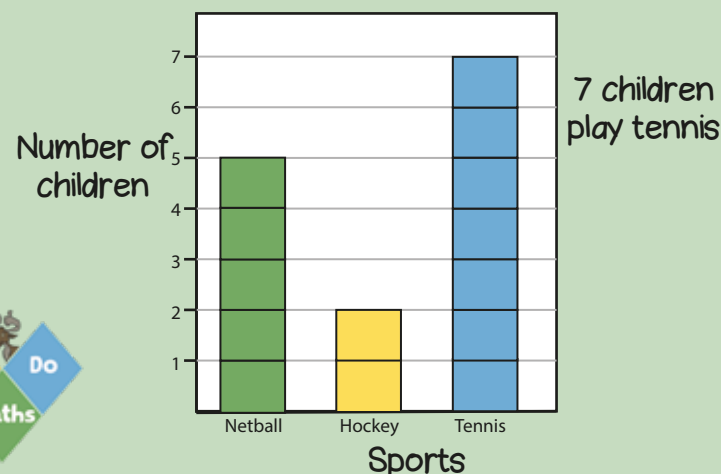
● = 5 people

15 people like ham the best.

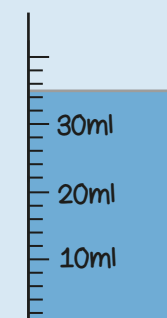
50 people were asked in total.

cheese	★
egg	★ ★
ham	★ ▶
salad	▶

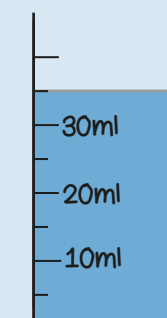
★ = 10 people



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.



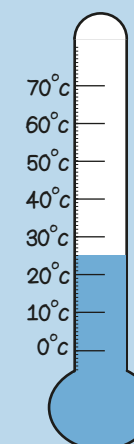
If there are 2 steps to increase by 10 then the scale goes up in 5s.



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

