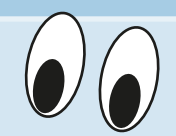
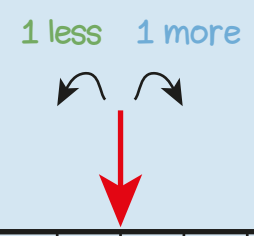


Stop and look.  
What do you notice?



1 less than 16 is 15    1 more than 16 is 17

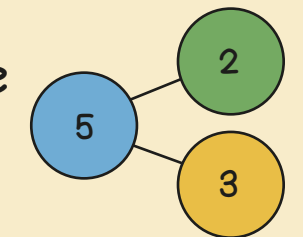


number  
digit  
less  
more  
greater  
ones  
tens

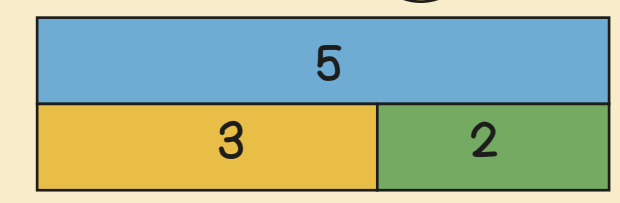
$5 = 5 + 0$		$5 - 0 = 5$
$5 = 4 + 1$		$5 - 1 = 4$
$5 = 3 + 2$		$5 - 2 = 3$
$5 = 2 + 3$		$5 - 3 = 2$
$5 = 1 + 4$		$5 - 4 = 1$
$5 = 0 + 5$		$5 - 5 = 0$

$6 = 6 + 0$		$6 - 0 = 6$
$6 = 5 + 1$		$6 - 1 = 5$
$6 = 4 + 2$		$6 - 2 = 4$
$6 = 3 + 3$		$6 - 3 = 3$
$6 = 2 + 4$		$6 - 4 = 2$
$6 = 1 + 5$		$6 - 5 = 1$
$6 = 0 + 6$		$6 - 6 = 0$

5 is the whole  
2 is a part  
3 is a part



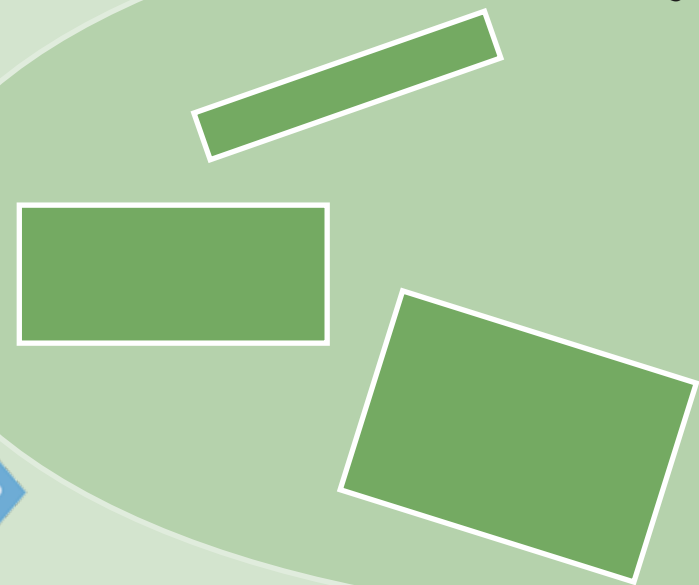
add  
total  
subtract  
left



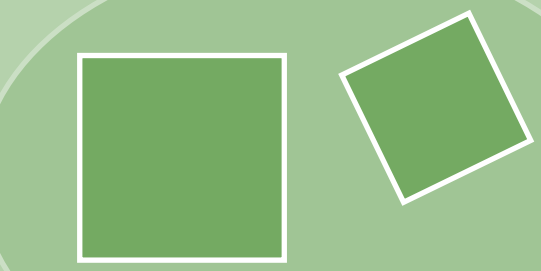
# Year 1 Term 1



Rectangles are 2D shapes with 4 straight sides and 4 right angles

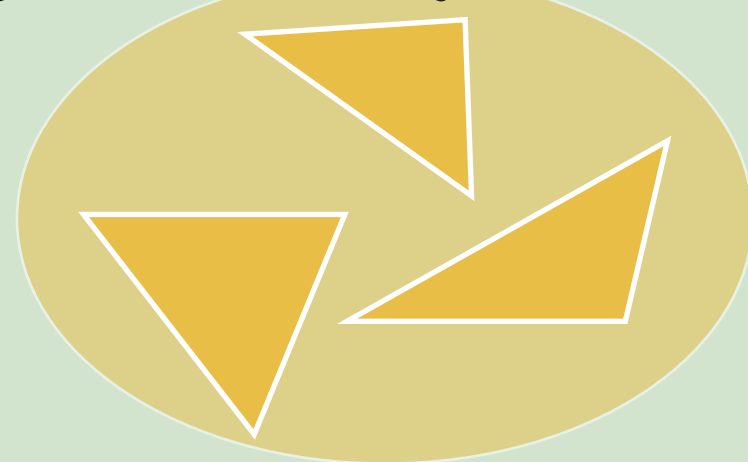


rectangle  
triangle  
square  
circle  
side  
straight

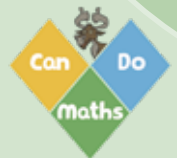
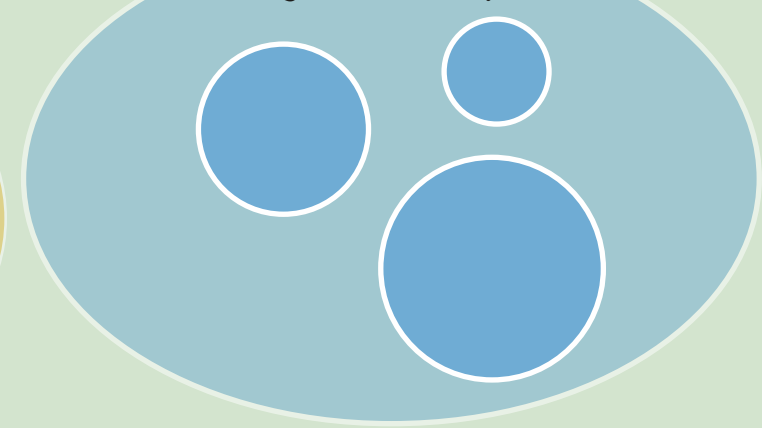


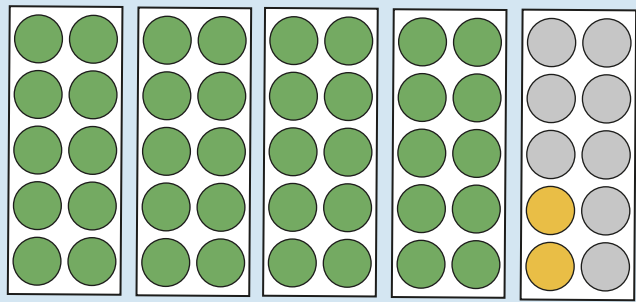
Squares are special rectangles with all the sides equal

Triangles are 2D shapes with 3 straight sides

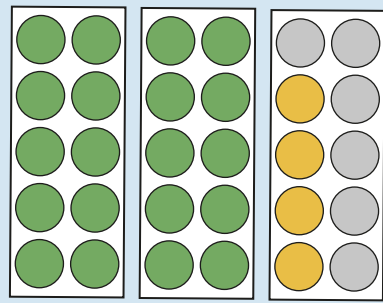


Circles are 2D shapes where the distance from the centre to the edge is always the same





**42**  
forty-two  
4 tens and 2 ones

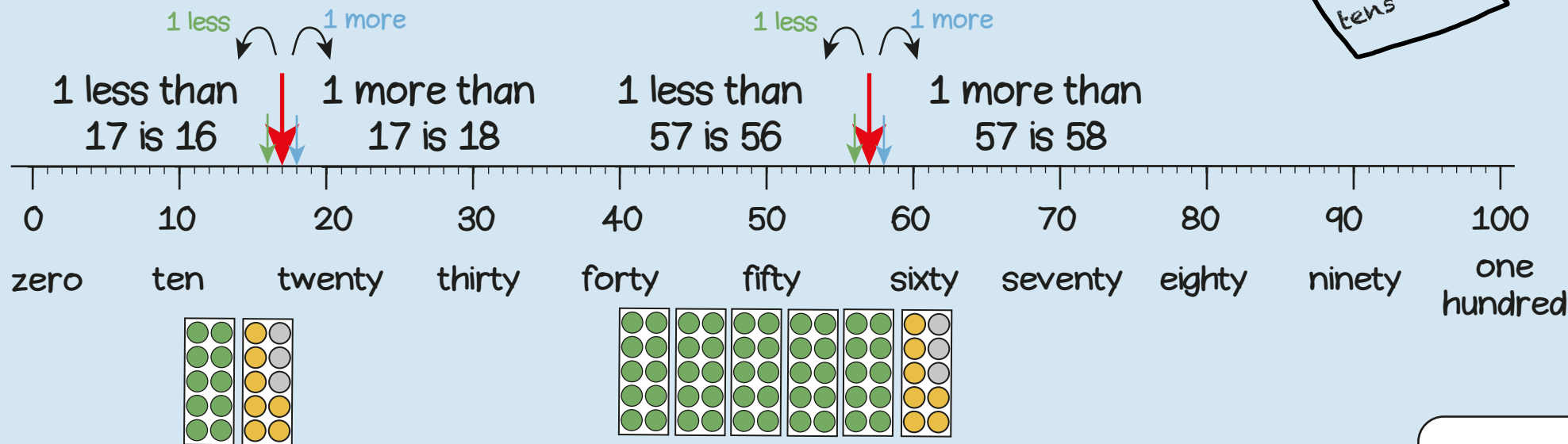
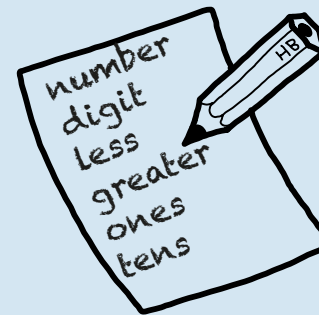


**24**  
twenty-four  
2 tens and 4 ones

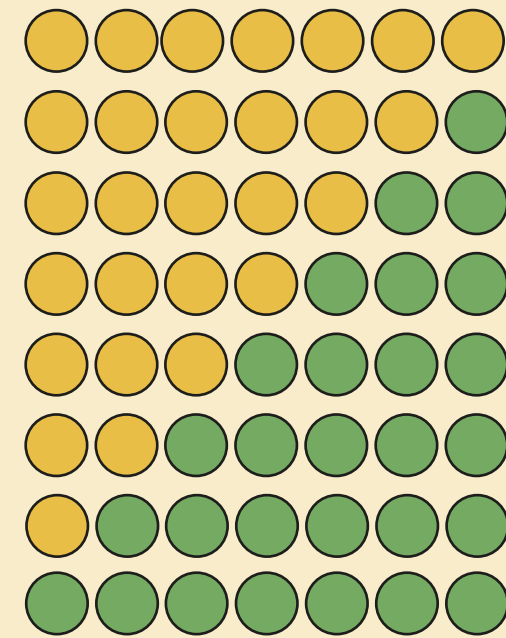
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

42 is more than 24 so  
24 is less than 42

Stop and look.  
What do you notice?

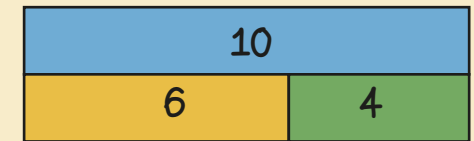
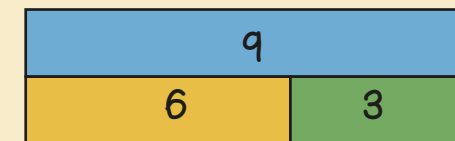
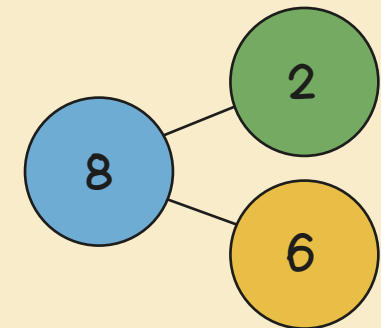


$$\begin{aligned} 7 &= 7 + 0 \\ 7 &= 6 + 1 \\ 7 &= 5 + 2 \\ 7 &= 4 + 3 \\ 7 &= 3 + 4 \\ 7 &= 2 + 5 \\ 7 &= 1 + 6 \\ 7 &= 0 + 7 \end{aligned}$$



$$\begin{aligned} 7 - 0 &= 7 \\ 7 - 1 &= 6 \\ 7 - 2 &= 5 \\ 7 - 3 &= 4 \\ 7 - 4 &= 3 \\ 7 - 5 &= 2 \\ 7 - 6 &= 1 \\ 7 - 7 &= 0 \end{aligned}$$

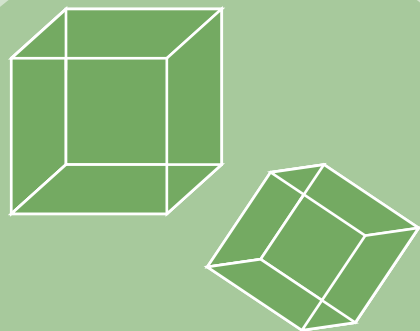
8 is the whole  
2 is a part  
6 is a part



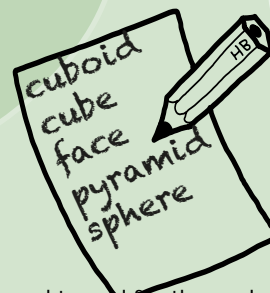
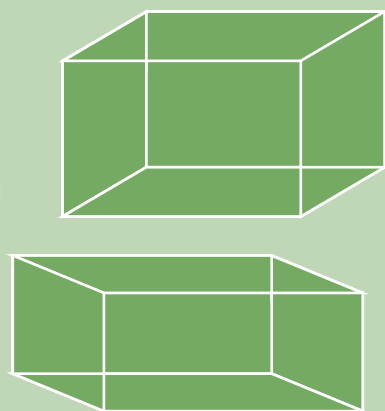
**Year 1 Term 2**



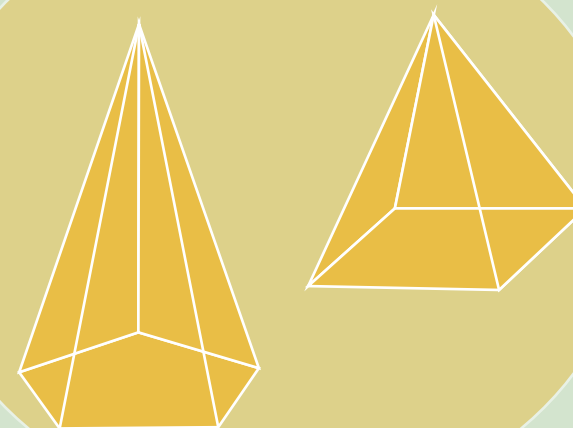
Cuboids are 3D shapes with  
6 rectangle faces



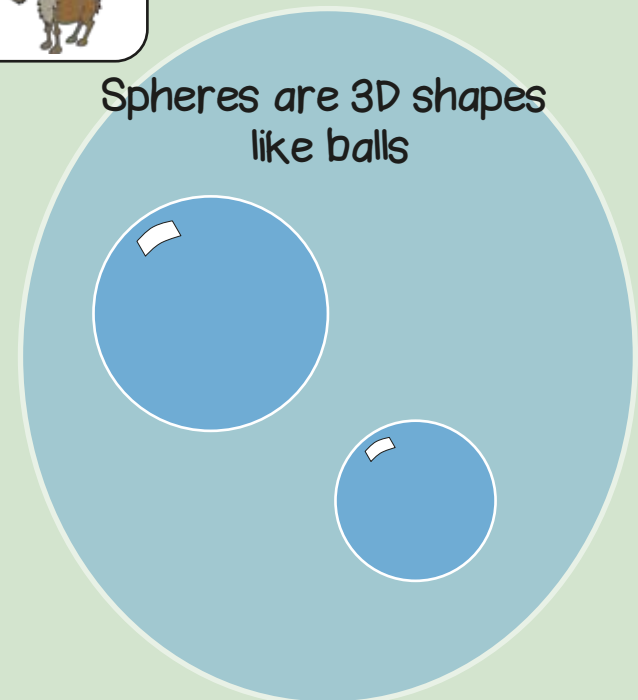
Cubes are special cuboids  
with 6 square faces



Pyramids have a base and  
triangle faces.

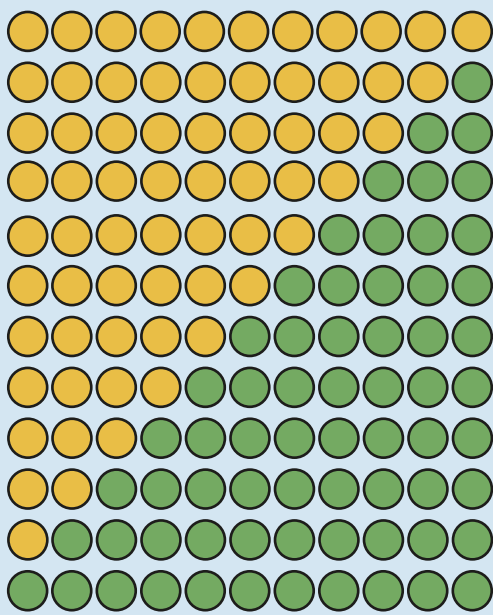


Spheres are 3D shapes  
like balls



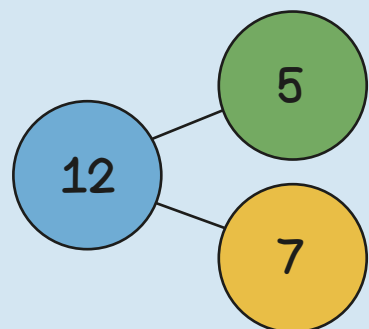


$$\begin{aligned}
 11 &= 11 + 0 \\
 11 &= 10 + 1 \\
 11 &= 9 + 2 \\
 11 &= 8 + 3 \\
 11 &= 7 + 4 \\
 11 &= 6 + 5 \\
 11 &= 5 + 6 \\
 11 &= 4 + 7 \\
 11 &= 3 + 8 \\
 11 &= 2 + 9 \\
 11 &= 1 + 10 \\
 11 &= 0 + 11
 \end{aligned}$$



$$\begin{aligned}
 11 - 0 &= 11 \\
 11 - 1 &= 10 \\
 11 - 2 &= 9 \\
 11 - 3 &= 8 \\
 11 - 4 &= 7 \\
 11 - 5 &= 6 \\
 11 - 6 &= 5 \\
 11 - 7 &= 4 \\
 11 - 8 &= 3 \\
 11 - 9 &= 2 \\
 11 - 10 &= 1 \\
 11 - 11 &= 0
 \end{aligned}$$

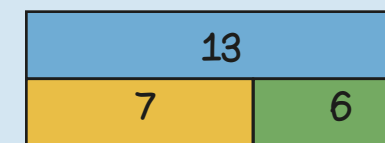
$$\begin{aligned}
 12 &= 12 + 0 \\
 12 &= 11 + 1 \\
 12 &= 10 + 2 \\
 12 &= 9 + 3 \\
 12 &= 8 + 4 \\
 12 &= 7 + 5 \\
 12 &= 6 + 6 \\
 12 &= 5 + 7 \\
 12 &= 4 + 8 \\
 12 &= 3 + 9 \\
 12 &= 2 + 10 \\
 12 &= 1 + 11 \\
 12 &= 0 + 12
 \end{aligned}$$



5 is one part  
7 is one part  
12 is the whole

$$\begin{aligned}
 12 - 0 &= 12 \\
 12 - 1 &= 11 \\
 12 - 2 &= 10 \\
 12 - 3 &= 9 \\
 12 - 4 &= 8 \\
 12 - 5 &= 7 \\
 12 - 6 &= 6 \\
 12 - 7 &= 5 \\
 12 - 8 &= 4 \\
 12 - 9 &= 3 \\
 12 - 10 &= 2 \\
 12 - 11 &= 1 \\
 12 - 12 &= 0
 \end{aligned}$$

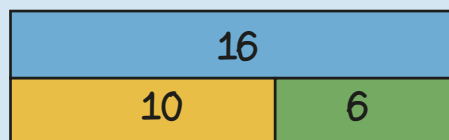
$$\begin{aligned}
 13 &= 13 + 0 \\
 13 &= 12 + 1 \\
 13 &= 11 + 2 \\
 13 &= 10 + 3 \\
 13 &= 9 + 4 \\
 13 &= 8 + 5 \\
 13 &= 7 + 6 \\
 13 &= 6 + 7 \\
 13 &= 5 + 8 \\
 13 &= 4 + 9 \\
 13 &= 3 + 10 \\
 13 &= 2 + 11 \\
 13 &= 1 + 12 \\
 13 &= 0 + 13
 \end{aligned}$$



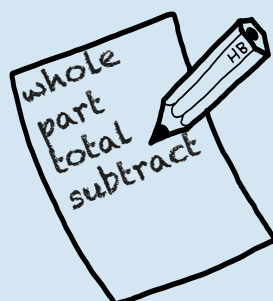
7 is one part  
6 is one part  
13 is the whole

$$\begin{aligned}
 13 - 0 &= 13 \\
 13 - 1 &= 12 \\
 13 - 2 &= 11 \\
 13 - 3 &= 10 \\
 13 - 4 &= 9 \\
 13 - 5 &= 8 \\
 13 - 6 &= 7 \\
 13 - 7 &= 6 \\
 13 - 8 &= 5 \\
 13 - 9 &= 4 \\
 13 - 10 &= 3 \\
 13 - 11 &= 2 \\
 13 - 12 &= 1 \\
 13 - 13 &= 0
 \end{aligned}$$

$$\begin{aligned}
 16 &= 16 + 0 \\
 16 &= 15 + 1 \\
 16 &= 14 + 2 \\
 16 &= 13 + 3 \\
 16 &= 12 + 4 \\
 16 &= 11 + 5 \\
 16 &= 10 + 6 \\
 16 &= 9 + 7 \\
 16 &= 8 + 8 \\
 16 &= 7 + 9 \\
 16 &= 6 + 10 \\
 16 &= 5 + 11 \\
 16 &= 4 + 12 \\
 16 &= 3 + 13 \\
 16 &= 2 + 14 \\
 16 &= 1 + 15 \\
 16 &= 0 + 16
 \end{aligned}$$

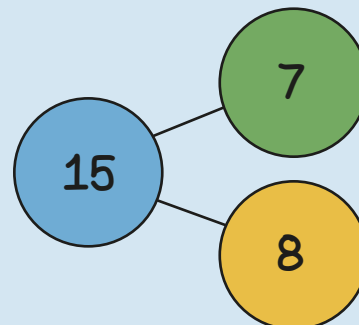


10 is one part  
6 is one part  
16 is the whole



$$\begin{aligned}
 16 - 0 &= 16 \\
 16 - 1 &= 15 \\
 16 - 2 &= 14 \\
 16 - 3 &= 13 \\
 16 - 4 &= 12 \\
 16 - 5 &= 11 \\
 16 - 6 &= 10 \\
 16 - 7 &= 9 \\
 16 - 8 &= 8 \\
 16 - 9 &= 7 \\
 16 - 10 &= 6 \\
 16 - 11 &= 5 \\
 16 - 12 &= 4 \\
 16 - 13 &= 3 \\
 16 - 14 &= 2 \\
 16 - 15 &= 1 \\
 16 - 16 &= 0
 \end{aligned}$$

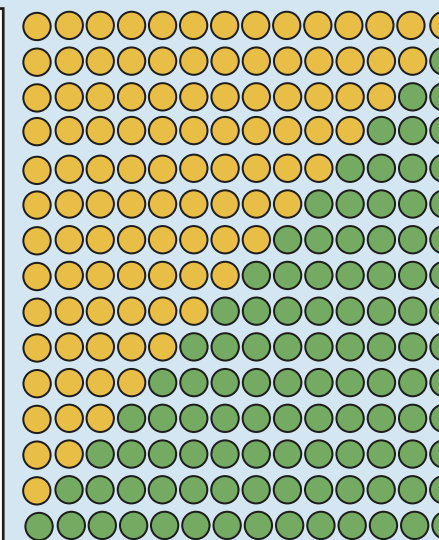
$$\begin{aligned}
 15 &= 15 + 0 \\
 15 &= 14 + 1 \\
 15 &= 13 + 2 \\
 15 &= 12 + 3 \\
 15 &= 11 + 4 \\
 15 &= 10 + 5 \\
 15 &= 9 + 6 \\
 15 &= 8 + 7 \\
 15 &= 7 + 8 \\
 15 &= 6 + 9 \\
 15 &= 5 + 10 \\
 15 &= 4 + 11 \\
 15 &= 3 + 12 \\
 15 &= 2 + 13 \\
 15 &= 1 + 14 \\
 15 &= 0 + 15
 \end{aligned}$$



7 is one part  
8 is one part  
15 is the whole

$$\begin{aligned}
 15 - 0 &= 15 \\
 15 - 1 &= 14 \\
 15 - 2 &= 13 \\
 15 - 3 &= 12 \\
 15 - 4 &= 11 \\
 15 - 5 &= 10 \\
 15 - 6 &= 9 \\
 15 - 7 &= 8 \\
 15 - 8 &= 7 \\
 15 - 9 &= 6 \\
 15 - 10 &= 5 \\
 15 - 11 &= 4 \\
 15 - 12 &= 3 \\
 15 - 13 &= 2 \\
 15 - 14 &= 1 \\
 15 - 15 &= 0
 \end{aligned}$$

$$\begin{aligned}
 14 &= 14 + 0 \\
 14 &= 13 + 1 \\
 14 &= 12 + 2 \\
 14 &= 11 + 3 \\
 14 &= 10 + 4 \\
 14 &= 9 + 5 \\
 14 &= 8 + 6 \\
 14 &= 7 + 7 \\
 14 &= 6 + 8 \\
 14 &= 5 + 9 \\
 14 &= 4 + 10 \\
 14 &= 3 + 11 \\
 14 &= 2 + 12 \\
 14 &= 1 + 13 \\
 14 &= 0 + 14
 \end{aligned}$$

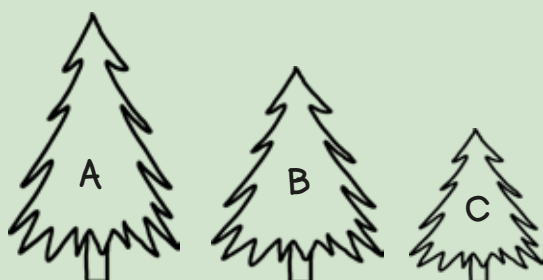


$$\begin{aligned}
 14 - 0 &= 14 \\
 14 - 1 &= 13 \\
 14 - 2 &= 12 \\
 14 - 3 &= 11 \\
 14 - 4 &= 10 \\
 14 - 5 &= 9 \\
 14 - 6 &= 8 \\
 14 - 7 &= 7 \\
 14 - 8 &= 6 \\
 14 - 9 &= 5 \\
 14 - 10 &= 4 \\
 14 - 11 &= 3 \\
 14 - 12 &= 2 \\
 14 - 13 &= 1 \\
 14 - 14 &= 0
 \end{aligned}$$

## Year 1 Term 3



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



Tree C is the shortest.

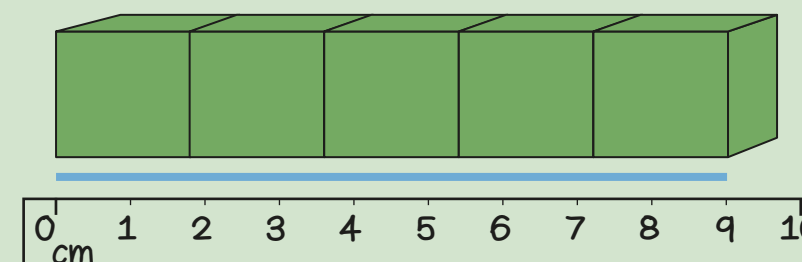


The yellow line is longer than the green line  
so the green line is shorter than the yellow line.



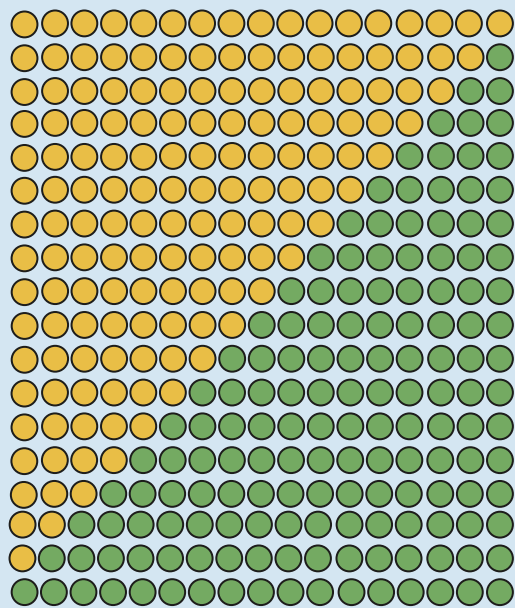
The blue line is longest.

The blue line is 5 blocks long.



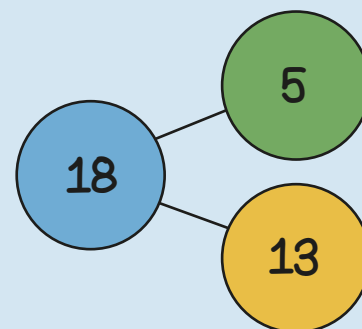
The blue line is 9 centimetres long.

$$\begin{aligned}
 17 &= 17 + 0 \\
 17 &= 16 + 1 \\
 17 &= 15 + 2 \\
 17 &= 14 + 3 \\
 17 &= 13 + 4 \\
 17 &= 12 + 5 \\
 17 &= 11 + 6 \\
 17 &= 10 + 7 \\
 17 &= 9 + 8 \\
 17 &= 8 + 9 \\
 17 &= 7 + 10 \\
 17 &= 6 + 11 \\
 17 &= 5 + 12 \\
 17 &= 4 + 13 \\
 17 &= 3 + 14 \\
 17 &= 2 + 15 \\
 17 &= 1 + 16 \\
 17 &= 0 + 17
 \end{aligned}$$



$$\begin{aligned}
 17 - 0 &= 17 \\
 17 - 1 &= 16 \\
 17 - 2 &= 15 \\
 17 - 3 &= 14 \\
 17 - 4 &= 13 \\
 17 - 5 &= 12 \\
 17 - 6 &= 11 \\
 17 - 7 &= 10 \\
 17 - 8 &= 9 \\
 17 - 9 &= 8 \\
 17 - 10 &= 7 \\
 17 - 11 &= 6 \\
 17 - 12 &= 5 \\
 17 - 13 &= 4 \\
 17 - 14 &= 3 \\
 17 - 15 &= 2 \\
 17 - 16 &= 1 \\
 17 - 17 &= 0
 \end{aligned}$$

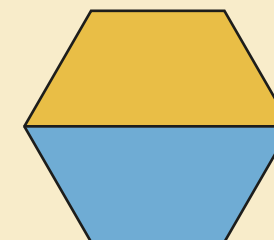
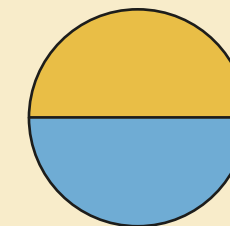
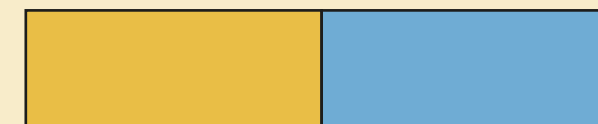
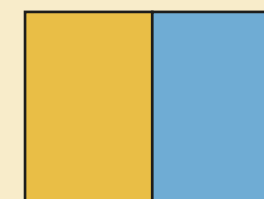
$$\begin{aligned}
 18 &= 18 + 0 \\
 18 &= 17 + 1 \\
 18 &= 16 + 2 \\
 18 &= 15 + 3 \\
 18 &= 14 + 4 \\
 18 &= 13 + 5 \\
 18 &= 12 + 6 \\
 18 &= 11 + 7 \\
 18 &= 10 + 8 \\
 18 &= 9 + 9 \\
 18 &= 8 + 10 \\
 18 &= 7 + 11 \\
 18 &= 6 + 12 \\
 18 &= 5 + 13 \\
 18 &= 4 + 14 \\
 18 &= 3 + 15 \\
 18 &= 2 + 16 \\
 18 &= 1 + 17 \\
 18 &= 0 + 18
 \end{aligned}$$



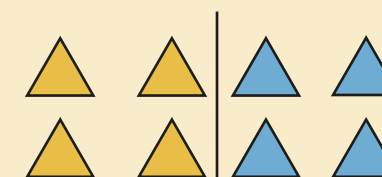
5 is one part  
13 is one part  
18 is the whole

$$\begin{aligned}
 18 - 0 &= 18 \\
 18 - 1 &= 17 \\
 18 - 2 &= 16 \\
 18 - 3 &= 15 \\
 18 - 4 &= 14 \\
 18 - 5 &= 13 \\
 18 - 6 &= 12 \\
 18 - 7 &= 11 \\
 18 - 8 &= 10 \\
 18 - 9 &= 9 \\
 18 - 10 &= 8 \\
 18 - 11 &= 7 \\
 18 - 12 &= 6 \\
 18 - 13 &= 5 \\
 18 - 14 &= 4 \\
 18 - 15 &= 3 \\
 18 - 16 &= 2 \\
 18 - 17 &= 1 \\
 18 - 18 &= 0
 \end{aligned}$$

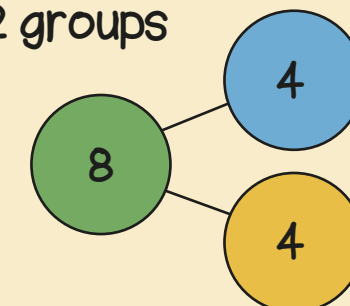
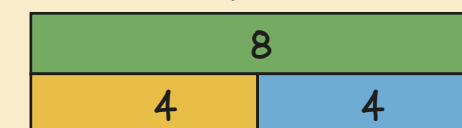
One half is one of two equal parts



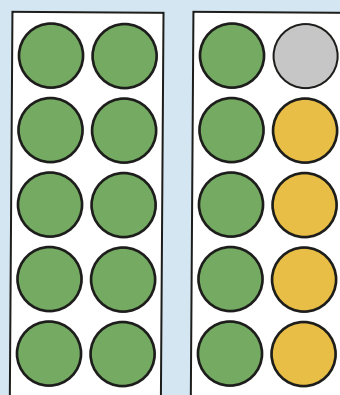
$\frac{1}{2}$  of each shape is yellow.



Share equally into 2 groups



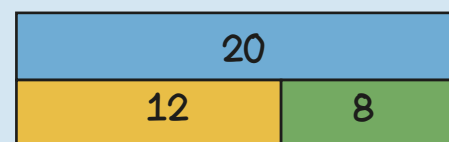
$$\begin{aligned}
 19 &= 19 + 0 \\
 19 &= 18 + 1 \\
 19 &= 17 + 2 \\
 19 &= 16 + 3 \\
 19 &= 15 + 4 \\
 19 &= 14 + 5 \\
 19 &= 13 + 6 \\
 19 &= 12 + 7 \\
 19 &= 11 + 8 \\
 19 &= 10 + 9 \\
 19 &= 9 + 10 \\
 19 &= 8 + 11 \\
 19 &= 7 + 12 \\
 19 &= 6 + 13 \\
 19 &= 5 + 14 \\
 19 &= 4 + 15 \\
 19 &= 3 + 16 \\
 19 &= 2 + 17 \\
 19 &= 1 + 18 \\
 19 &= 0 + 19
 \end{aligned}$$



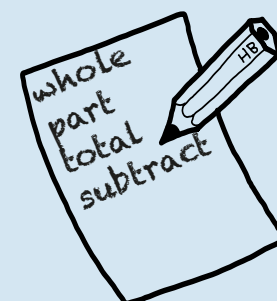
If I know  
 $5 + 4 = 9$   
then I also know  
 $15 + 4 = 19$

$$\begin{aligned}
 19 - 0 &= 19 \\
 19 - 1 &= 18 \\
 19 - 2 &= 17 \\
 19 - 3 &= 16 \\
 19 - 4 &= 15 \\
 19 - 5 &= 14 \\
 19 - 6 &= 13 \\
 19 - 7 &= 12 \\
 19 - 8 &= 11 \\
 19 - 9 &= 10 \\
 19 - 10 &= 9 \\
 19 - 11 &= 8 \\
 19 - 12 &= 7 \\
 19 - 13 &= 6 \\
 19 - 14 &= 5 \\
 19 - 15 &= 4 \\
 19 - 16 &= 3 \\
 19 - 17 &= 2 \\
 19 - 18 &= 1 \\
 19 - 19 &= 0
 \end{aligned}$$

$$\begin{aligned}
 20 &= 20 + 0 \\
 20 &= 19 + 1 \\
 20 &= 18 + 2 \\
 20 &= 17 + 3 \\
 20 &= 16 + 4 \\
 20 &= 15 + 5 \\
 20 &= 14 + 6 \\
 20 &= 13 + 7 \\
 20 &= 12 + 8 \\
 20 &= 11 + 9 \\
 20 &= 10 + 10 \\
 20 &= 9 + 11 \\
 20 &= 8 + 12 \\
 20 &= 7 + 13 \\
 20 &= 6 + 14 \\
 20 &= 5 + 15 \\
 20 &= 4 + 16 \\
 20 &= 3 + 17 \\
 20 &= 2 + 18 \\
 20 &= 1 + 19 \\
 20 &= 0 + 20
 \end{aligned}$$

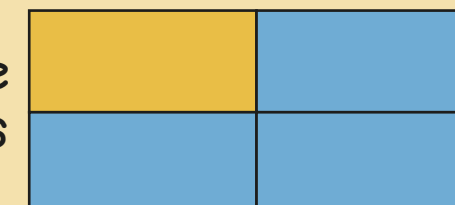


12 is one part  
8 is one part  
20 is the whole

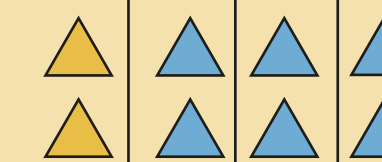
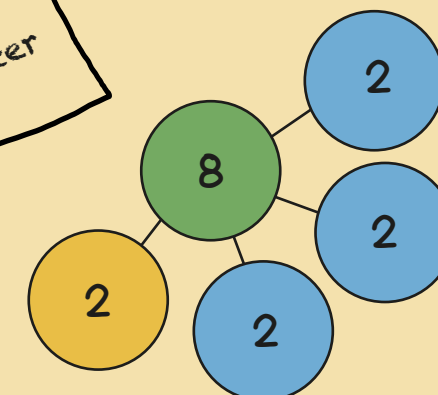
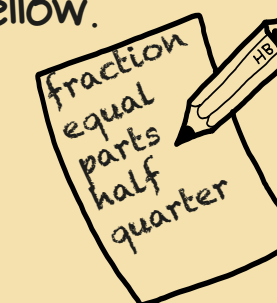
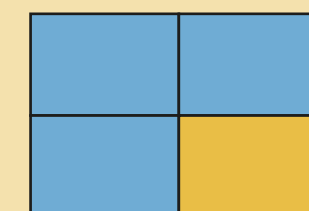


$$\begin{aligned}
 20 - 0 &= 20 \\
 20 - 1 &= 19 \\
 20 - 2 &= 18 \\
 20 - 3 &= 17 \\
 20 - 4 &= 16 \\
 20 - 5 &= 15 \\
 20 - 6 &= 14 \\
 20 - 7 &= 13 \\
 20 - 8 &= 12 \\
 20 - 9 &= 11 \\
 20 - 10 &= 10 \\
 20 - 11 &= 9 \\
 20 - 12 &= 8 \\
 20 - 13 &= 7 \\
 20 - 14 &= 6 \\
 20 - 15 &= 5 \\
 20 - 16 &= 4 \\
 20 - 17 &= 3 \\
 20 - 18 &= 2 \\
 20 - 19 &= 1 \\
 20 - 20 &= 0
 \end{aligned}$$

One quarter is one of four equal parts



$\frac{1}{4}$  of each shape is yellow.

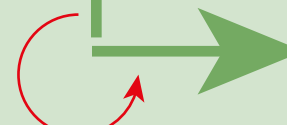


Share into 4 equal groups

# Year 1 Term 4



One quarter turn right



Three-quarter turn left



Coco is above Colin

Colin is below Coco

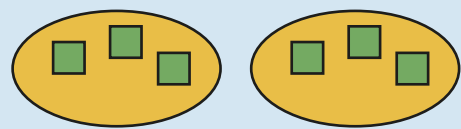


KeePuppI is between Colin and Coco





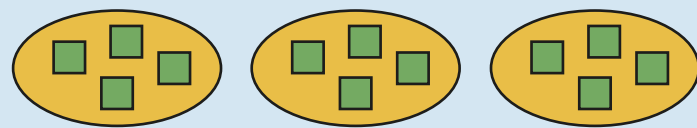




Double 3 is 6  
 $3 + 3 = 6$   
 2 groups of 3 = 6

multiply  
 equal  
 share  
 group  
 divide

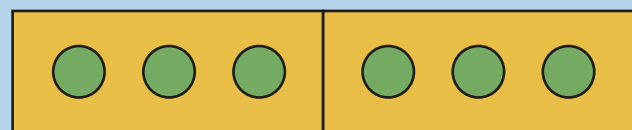
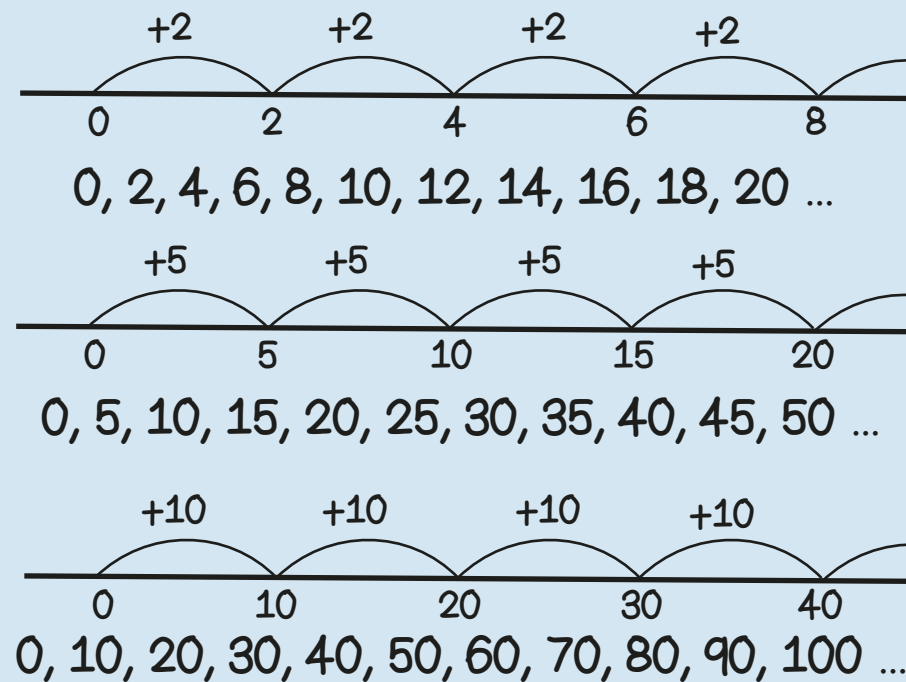
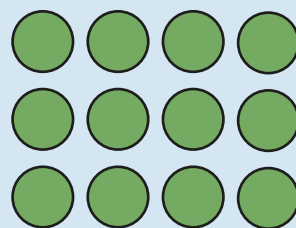
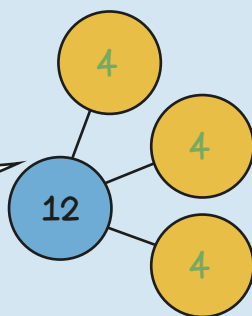
The groups  
 are equal



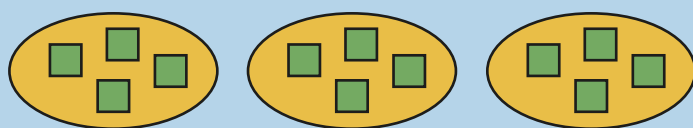
3 groups of 4



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



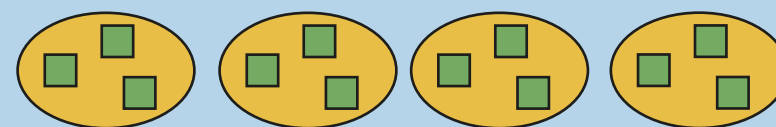
Half of 6 is 3  
 6 shared equally into  
 2 groups is  
 3 in each group



12 divided equally into  
 3 groups is  
 4 in each group

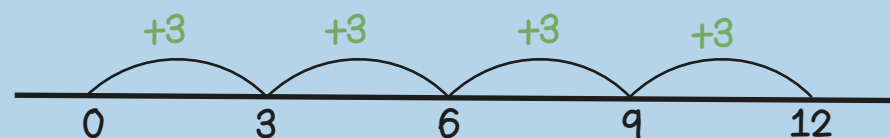


The groups  
 are equal

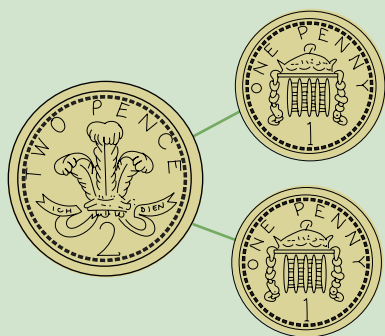


12 divided equally  
 into groups of 3  
 is 4 groups

There are four 3s  
 in twelve



Bronze coins



2p coin 1p coin

penny  
 pence  
 coin  
 note

Silver coins



20p coin

10p coin

5p coin



50p coin



£1 coin

Notes



£2 coin



Year 1 Term 6



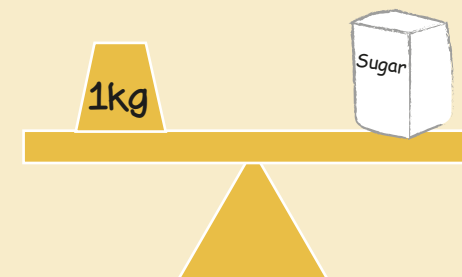
The Colin is heavier than Coco  
 so Coco is lighter than Colin



heavier than  
 lighter than  
 kilogram  
 full  
 empty  
 litre



The spoon holds less than the bottle  
 The bottle holds more than the spoon



1kg

