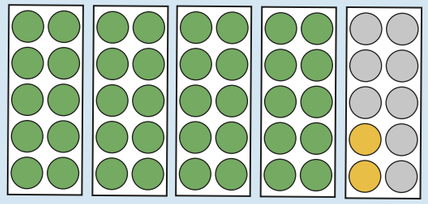
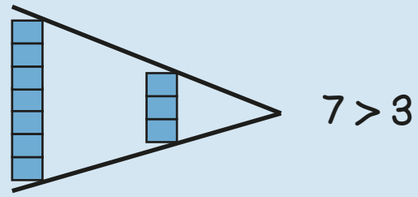


42
forty-two
4 tens and 2 ones

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

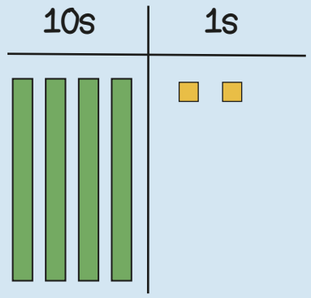
3 = 3



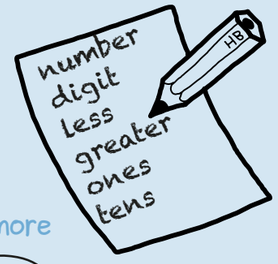
7 > 3

52 is more than 42
52 > 42

42 is less than 52
42 < 52



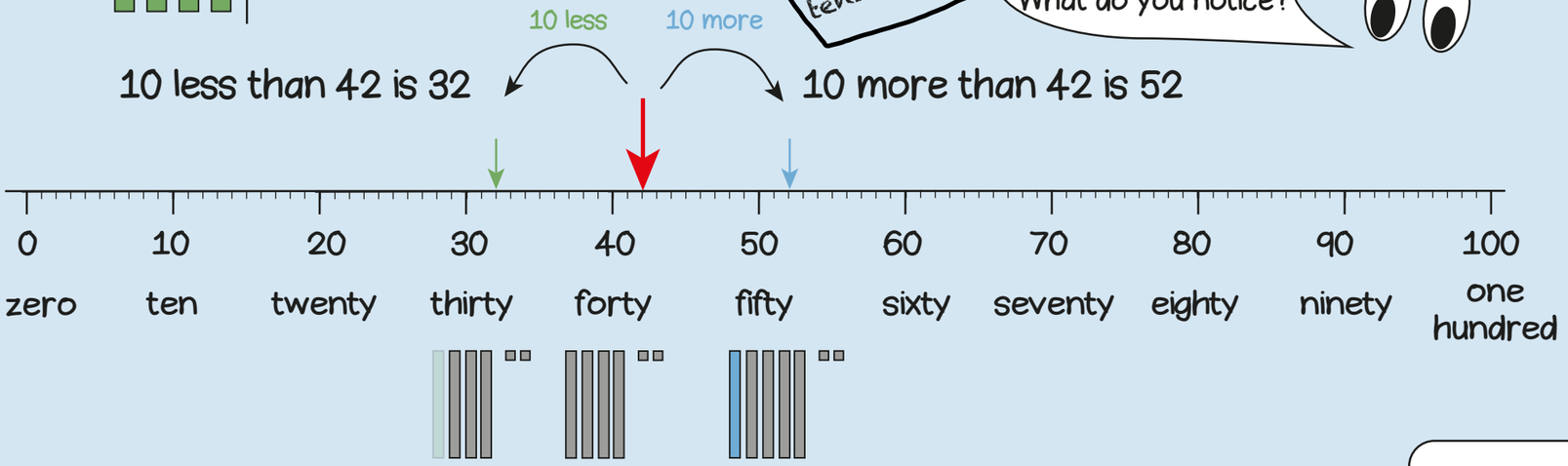
42 = 40 + 2
42 = 30 + 12
42 = 20 + 22
42 = 10 + 32



Stop and look.
What do you notice?

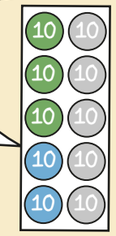
10 less than 42 is 32

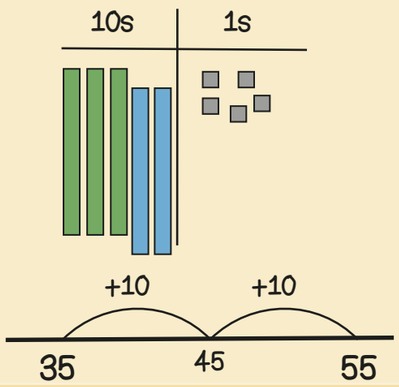
10 more than 42 is 52



35 + 20
Add multiples of ten

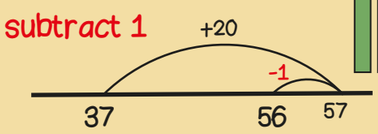
If I know 3 + 2
then I also know...





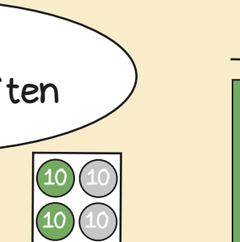
37 + 19
Round then adjust

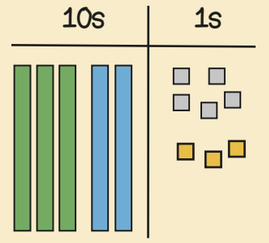
Add 20 then subtract 1



35 + 23
Partition and recombine

35 + 23
30 + 5 + 20 + 3
50 + 8 = 58

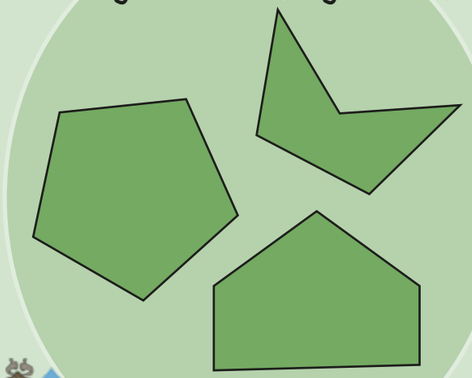




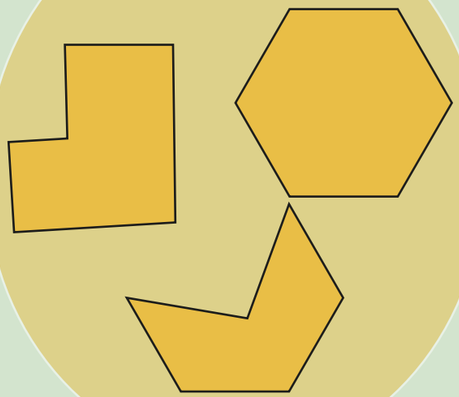
35 + 23 = 23 + 35
Addition is commutative

Year 2 Term 1

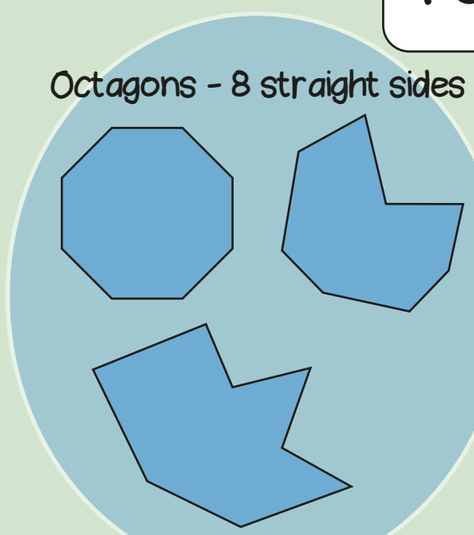
Pentagons - 5 straight sides

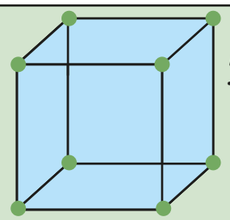


Hexagons - 6 straight sides

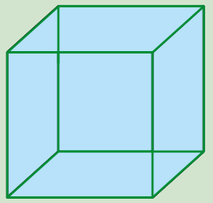


Octagons - 8 straight sides



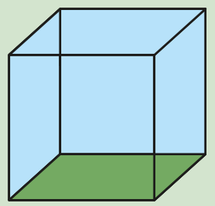


A vertex is the corner of a 3D shape.
This cube has 8 vertices.



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

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



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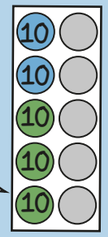
10	10 – 0								
9	10 – 1	9 – 0							
8	10 – 2	9 – 1	8 – 0						
7	10 – 3	9 – 2	8 – 1	7 – 0					
6	10 – 4	9 – 3	8 – 2	7 – 1	6 – 0				
5	10 – 5	9 – 4	8 – 3	7 – 2	6 – 1	5 – 0			
4	10 – 6	9 – 5	8 – 4	7 – 3	6 – 2	5 – 1	4 – 0		
3	10 – 7	9 – 6	8 – 5	7 – 4	6 – 3	5 – 2	4 – 1	3 – 0	
2	10 – 8	9 – 7	8 – 6	7 –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

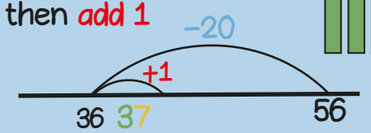
Subtraction Facts

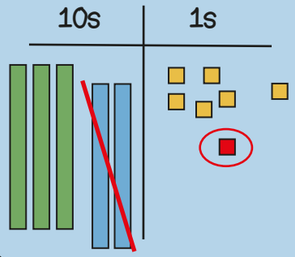
If I know 5 – 2 = 3
then I also know
50 – 20 = 30



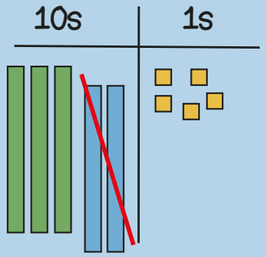
56 – 19
Round then adjust

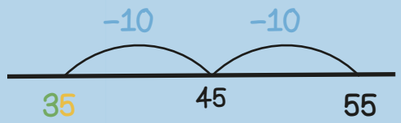
Subtract 20 then add 1





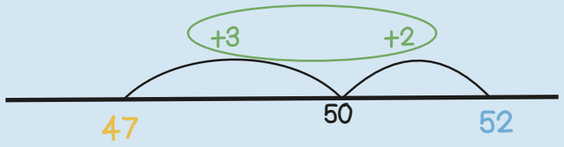
55 – 20
Subtract multiples of ten

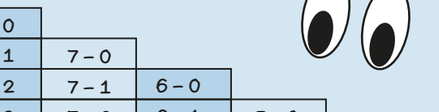




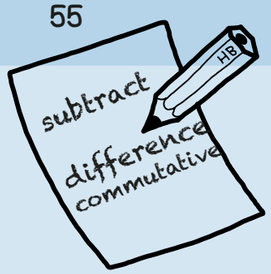
52 – 47
Find the difference between two numbers

52 – 47 = ◯
47 + ◯ = 52

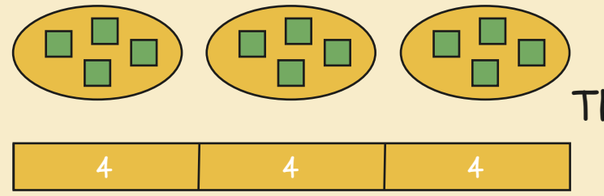




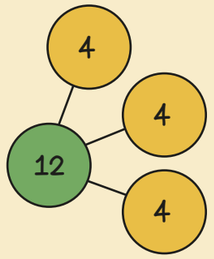
Stop and look.
What do you notice?

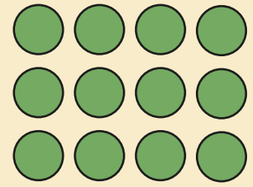


52 – 47 is not equal to 47 – 52
Subtraction is not commutative



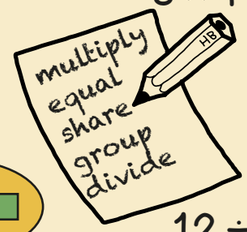
Three groups of four
4 + 4 + 4 = 12

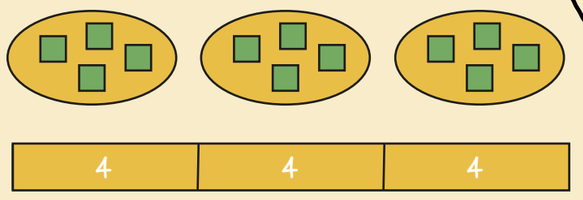




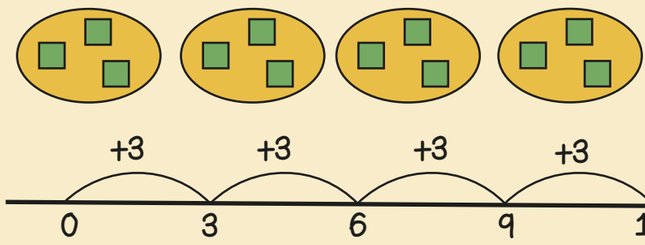
4 multiplied by 3
4 × 3 = 12

3 groups of 4
3 × 4 = 12





12 ÷ 3 = 4
12 divided equally into 3 groups

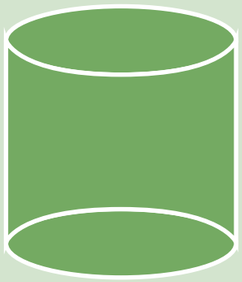


12 ÷ 3 = 4
12 divided equally into groups of 3

How many 3s in twelve?

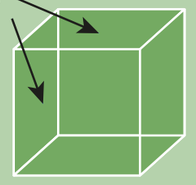
Year 2 Term 2

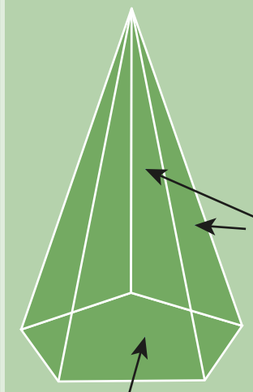
A cylinder is a 3-D shape with circles at both ends



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

All faces are squares



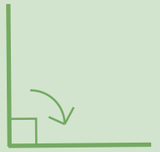


Some faces are triangles

This face is a pentagon

Clockwise

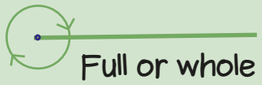
Anti-clockwise



1 right angle turn
or 1 quarter turn
clockwise

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

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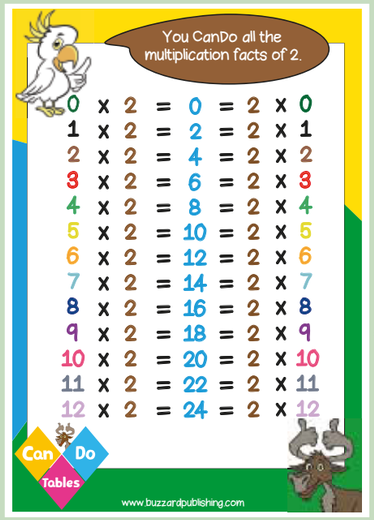


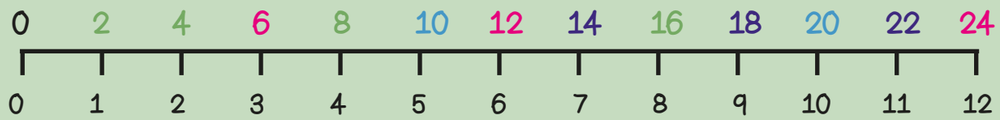
Factor, factor, product

2, 1, 2
2, 2, 4
2, 4, 8
2, 8, 16

2, 10, 20
2, 5, 10

2, 3, 6
2, 6, 12
2, 12, 24

2, 11, 22
2, 9, 18
2, 7, 14



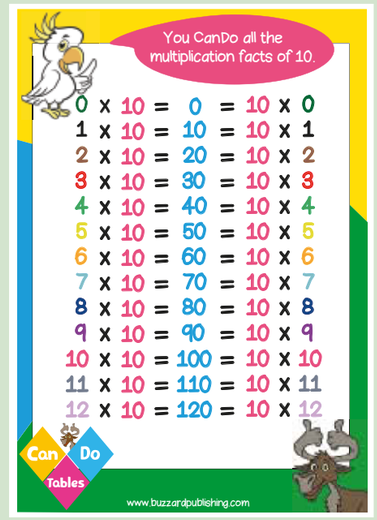
There is a repeating pattern of 0, 2, 4, 6, 8

Even numbers are divisible by 2

2 x 5 = 10
10 = 2 x 5
10 ÷ 2 = 5
5 = 10 ÷ 2

5 x 2 = 10
10 = 5 x 2
10 ÷ 5 = 2
2 = 10 ÷ 5

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



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

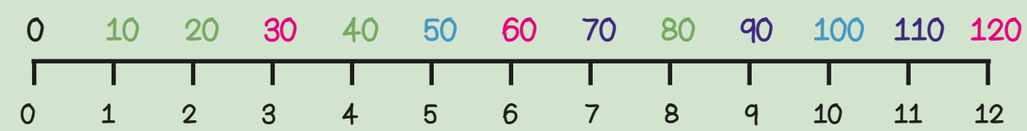
The products of 10 are even numbers.

10, 1, 10
10, 2, 20
10, 4, 40
10, 8, 80

10, 10, 100
10, 5, 50

10, 3, 30
10, 6, 60
10, 12, 120

10, 11, 110
10, 9, 90
10, 7, 70



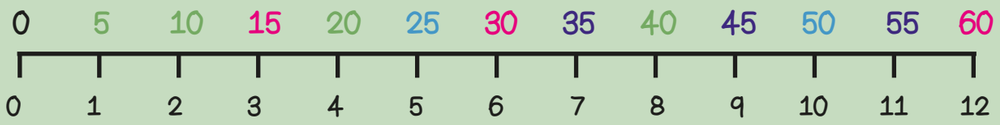
Year 2 Term 3

5, 1, 5
5, 2, 10
5, 4, 20
5, 8, 40

5, 10, 50
5, 5, 25

5, 3, 15
5, 6, 30
5, 12, 60

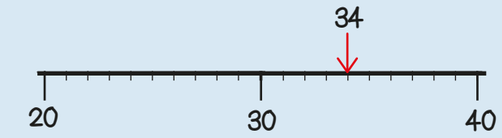
5, 11, 55
5, 9, 45
5, 7, 35



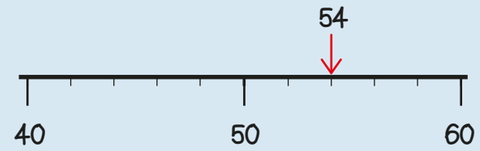
The product of an odd number and 5 is odd.

The product of an even number and 5 is even.

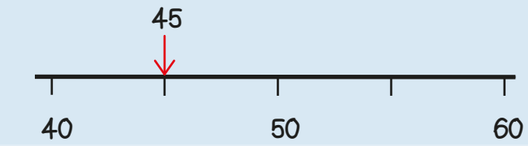
If there are 10 steps to increase by 10 then the scale is going up in 1s.



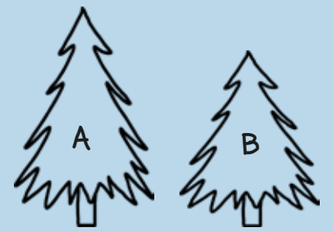
If there are 5 steps to increase by 10 then the scale goes up in 2s.



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



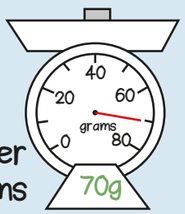
Tree A is taller than tree B
so tree B is shorter than tree A.



52cm > 25cm
25m < 52m
1m > 1cm

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

35kg is heavier than 70g
so
70 grams is lighter than 35 kilograms



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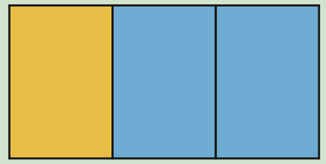
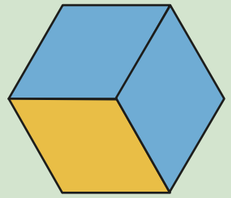
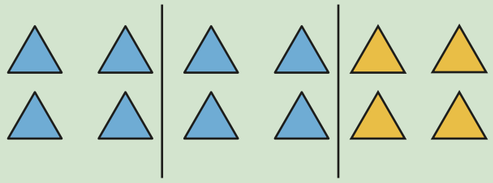
One third is one of three equal parts

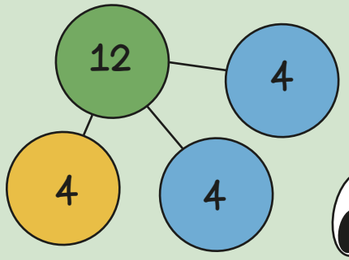


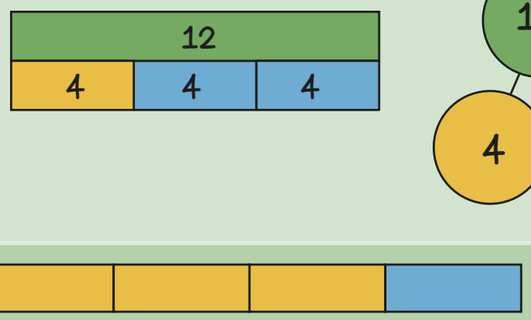
$\frac{1}{3}$ of the whole is yellow

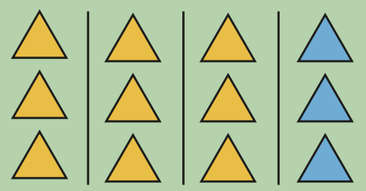




Share equally into 3 groups

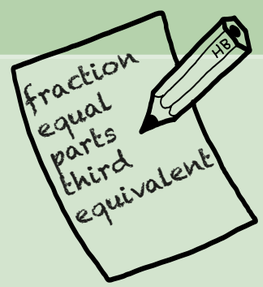




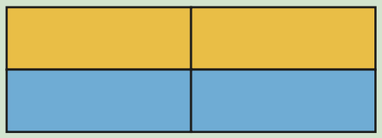


$\frac{3}{4}$ of the whole is yellow

3 of 4 equal parts

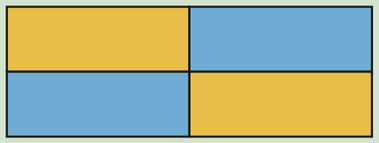


Two quarters are equivalent to one half



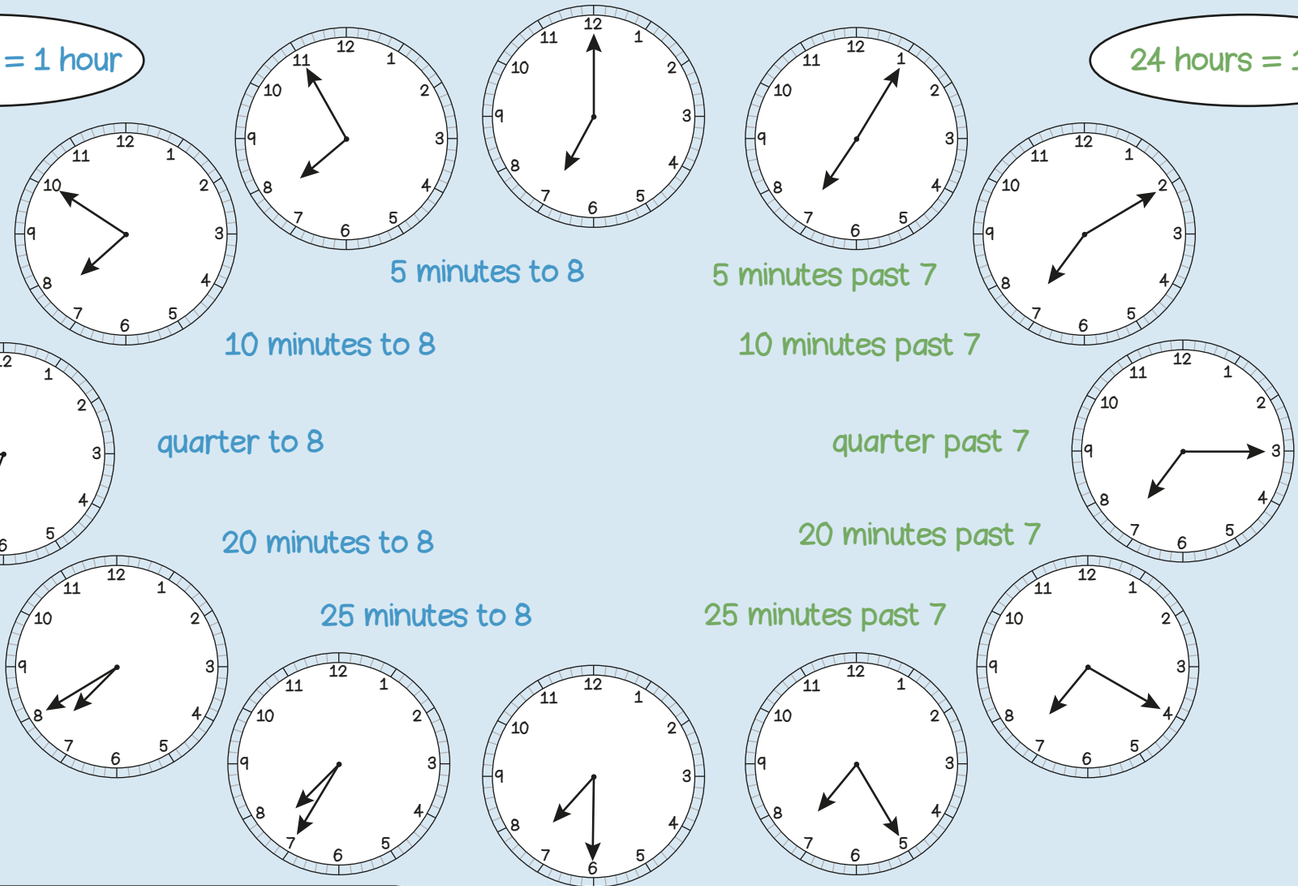
$\frac{2}{4}$ of the whole is yellow

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

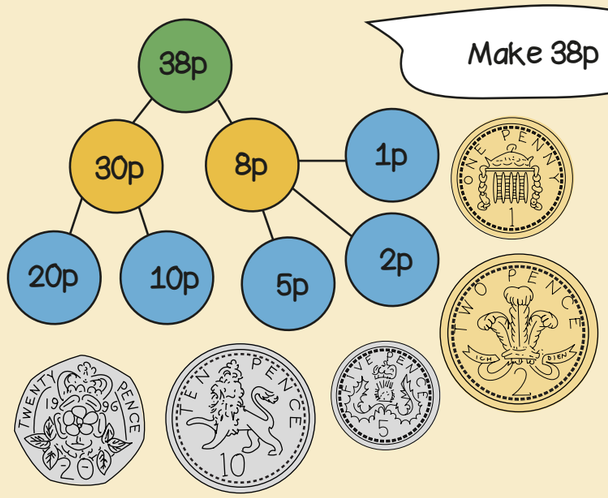


60 minutes = 1 hour

24 hours = 1 day



Year 2 Term 4



£5 + £10 = £15

70p in different ways

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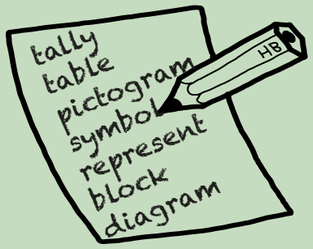
Pet	total
dogs	6
cats	4
mice	5
rabbits	1

6 people own dogs

Pet	tally	total
cheese	𝍸 𝍸	10
egg	𝍸 𝍸 𝍸 𝍸	20
ham	𝍸 𝍸 𝍸	15
salad	𝍸	5



Year 2 Term 5

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

▲ = 1 person

cheese	●●
egg	●●●●
ham	●●●
salad	●

● = 5 people

6 people own dogs.

16 people were asked in total.

15 people like ham the best.

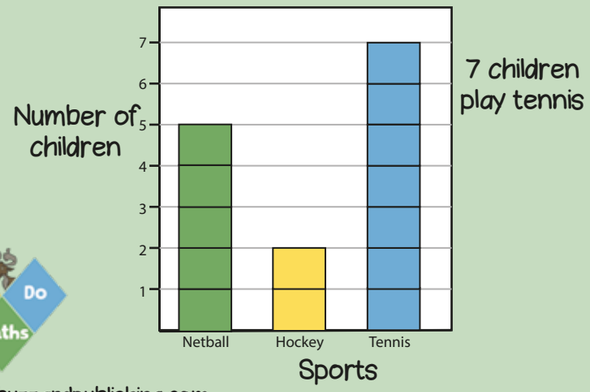
50 people were asked in total.

dogs	▭▭▭
cats	▭▭
mice	▭▭▭
rabbits	▭

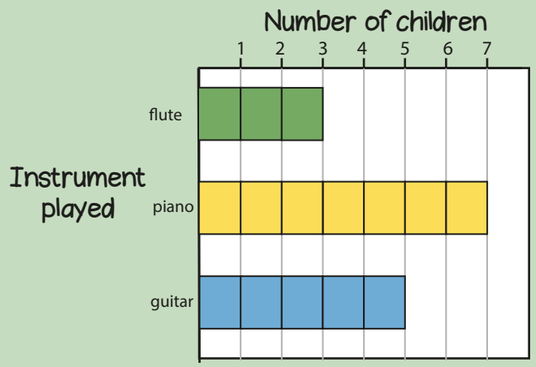
▭ = 2 people

cheese	★
egg	★★
ham	★◗
salad	◗

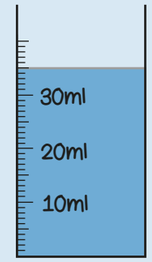
★ = 10 people



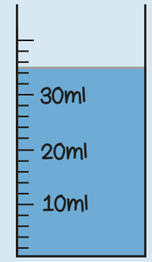
7 children play tennis



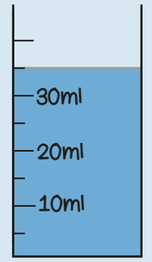
7 children play piano



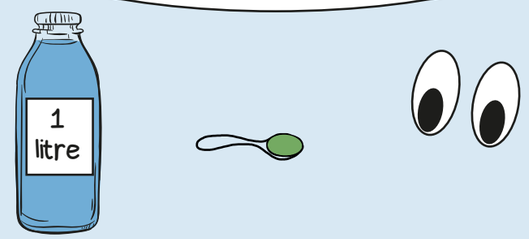
If there are 10 steps to increase by 10 then the scale is going up in 1s.



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

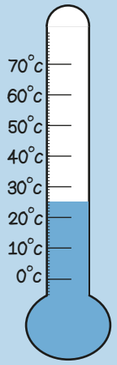


If there are 2 steps to increase by 10 then the scale goes up in 5s.

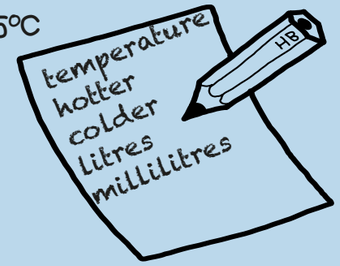


1 litre > 5 millilitres

The bottle has a greater capacity than the teaspoon



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



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