Year 2 Term 1

42
forty-two
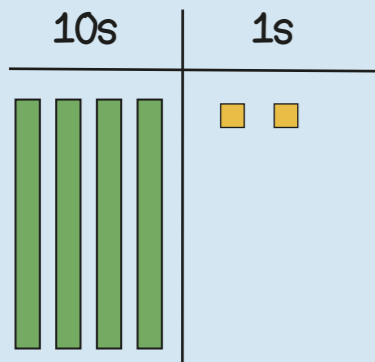4 tens and 2 ones

10s | 1s

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

number
digit
less
greater
ones
tens
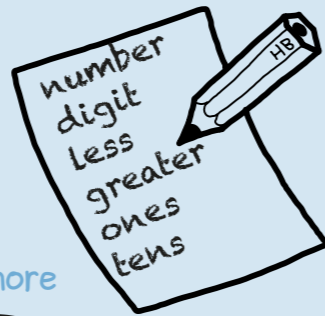
Stop and look.
What do you notice?

10 less   10 more

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

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
$42 < 52$

0   10   20   30   40   50   60   70   80   90   100
zero ten twenty thirty forty fifty sixty seventy eighty ninety one hundred

35 + 20
Add multiples of ten

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

10s | 1s

+10   +10
35   45   55

37 + 19
Round then adjust

10s | 1s

Add 20 then subtract 1

+20
-1
37   56   57
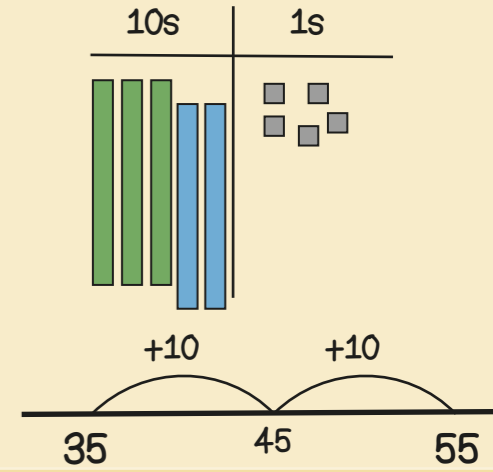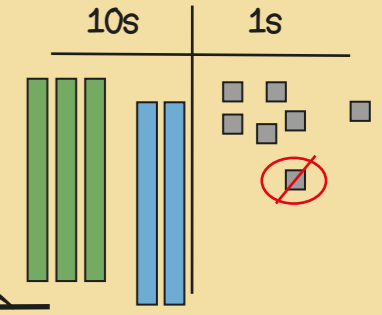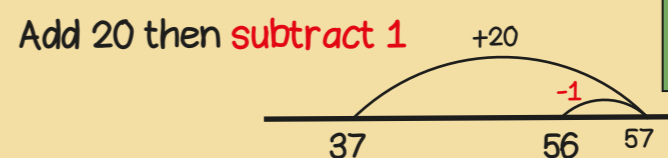
35 + 23
Partition and recombine

10s | 1s

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

addend
sum
plus
total
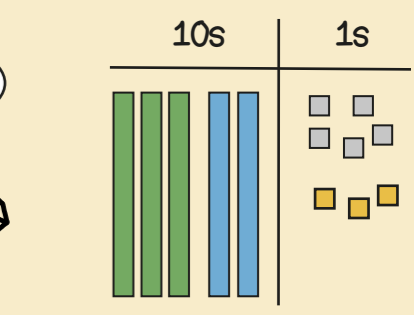
$35 + 23 = 23 + 35$
Addition is commutative
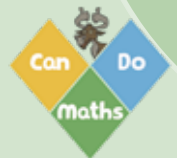
Pentagons - 5 straight sides

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.

pentagon
hexagon
octagon
vertex
edge
face

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

Subtraction Facts

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

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

10s | 1s

56 – 19
Round then adjust

Subtract 20 then add 1

–20
+1
36 37 56

55 – 20
Subtract multiples of ten

–10 –10
35 45 55

52 – 47
Find the difference between two numbers

52 – 47 = ◯
47 + ◯ = 52

52
47 5

+3 +2
47 50 52

Stop and look. What do you notice?
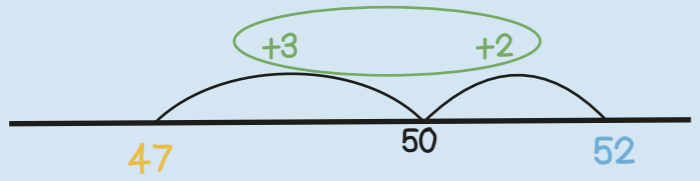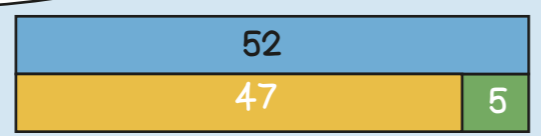
subtract difference commutative
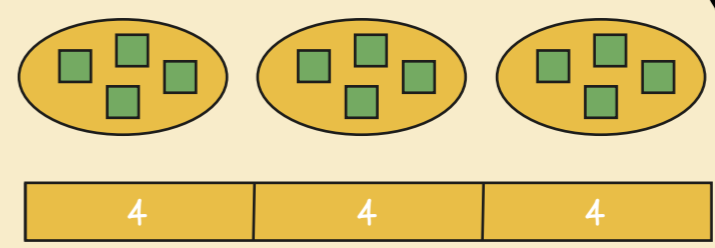
52 – 47 is not equal to 47 – 52
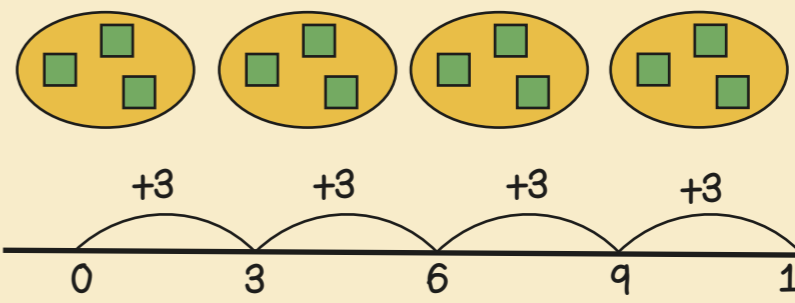Subtraction is not commutative

Three groups of four
4 + 4 + 4 = 12

4 multiplied by 3
4 × 3 = 12

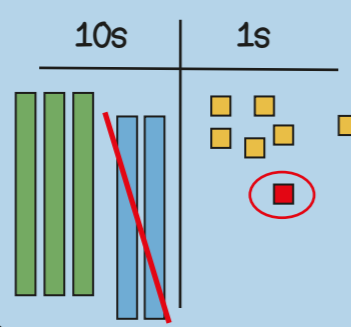3 groups of 4
3 × 4 = 12

multiply equal share group divide

12 ÷ 3 = 4
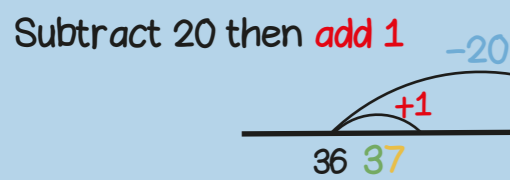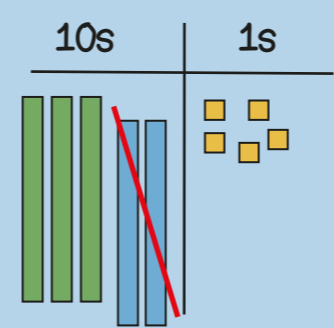12 divided equally into 3 groups

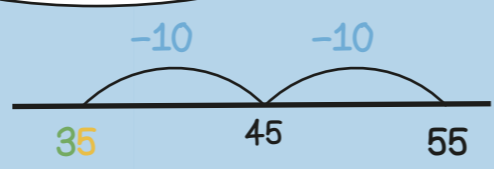12 ÷ 3 = 4
12 divided equally into groups of 3

+3 +3 +3 +3
0 3 6 9 12

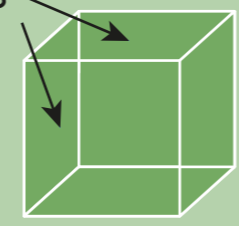How many 3s in twelve?

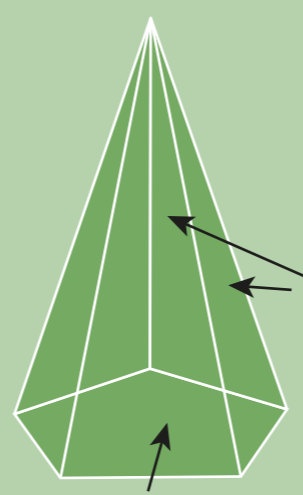A cylinder is a 3-D shape with circles at both ends
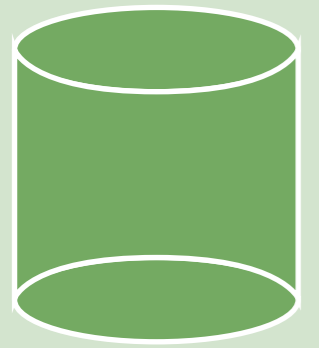
A cone is a 3-D shape with a circular base and a curved surface that meets at a point

All faces are squares
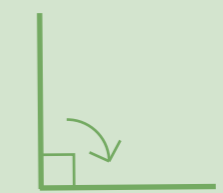
Some faces are triangles

This face is a pentagon

cylinder face cone clockwise anti-clockwise

Clockwise
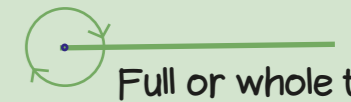
Anti-clockwise

1 right angle turn or 1 quarter turn clockwise
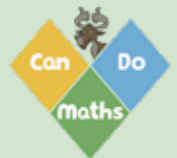
3 right angle turns or 3 quarter turns anti-clockwise

2 right angle turns or 1 half turn anti-clockwise

Full or whole turn clockwise

Can Do Maths

Year 2 Term 3

You CanDo all the multiplication facts of 2.

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

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

0 2 4 6 8 10 12 14 16 18 20 22 24
0 1 2 3 4 5 6 7 8 9 10 11 12
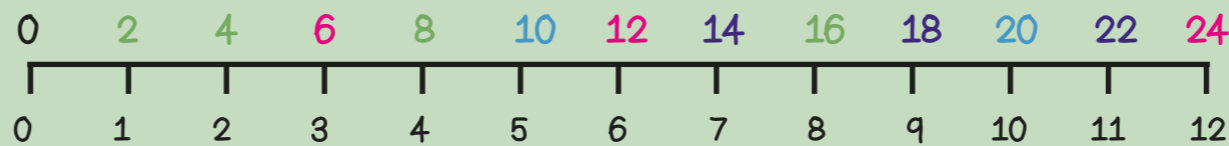
There is a repeating pattern of 0, 2, 4, 6, 8

Even numbers are divisible by 2

2 5 10

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

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

If I know... then I also know...
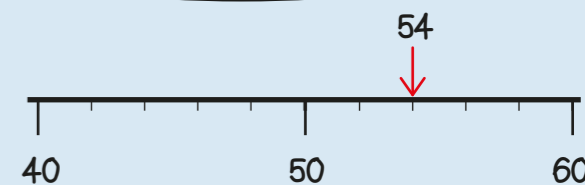
You CanDo all the multiplication facts of 10.

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

multiple factor product odd even

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

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

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

The products of 10 are even numbers.

You CanDo all the multiplication facts of 5

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

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

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

The product of an odd number and 5 is odd.

The product of an even number and 5 is even.
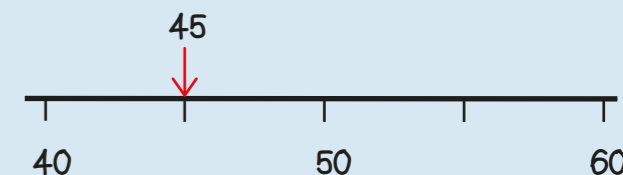

If there are 10 steps to increase by 10 then the scale is going up in 1s.

34
20   30   40

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

54
40   50   60

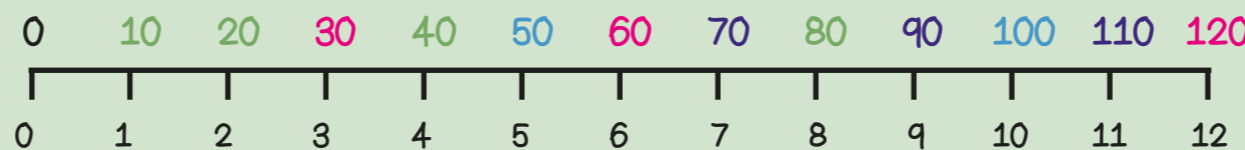If there are 2 steps to increase by 10 then the scale goes up in 5s.

45
40   50   60

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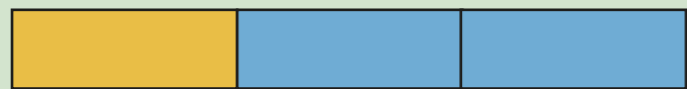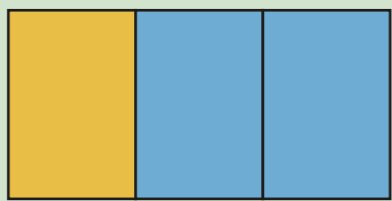

52cm > 25cm
25m < 52m
1m > 1cm
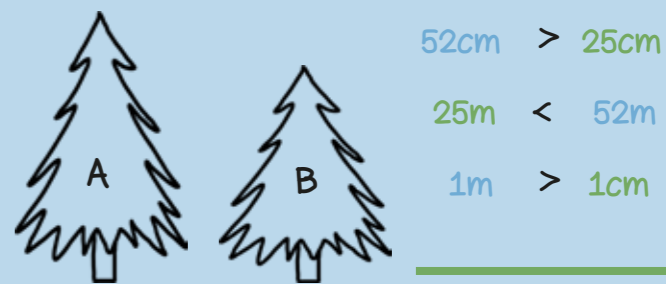
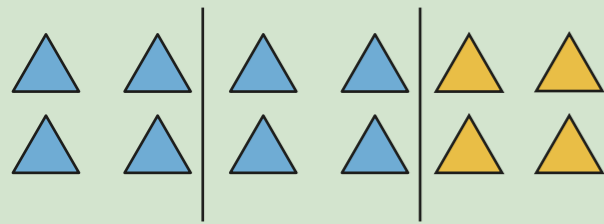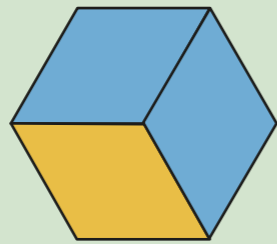The yellow line is longer than the green line so the green line is shorter than the yellow line.
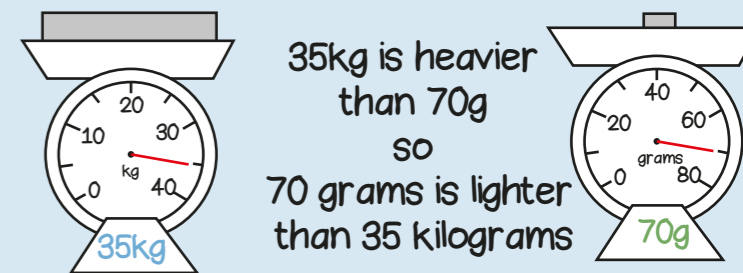
35kg is heavier than 70g so 70 grams is lighter than 35 kilograms
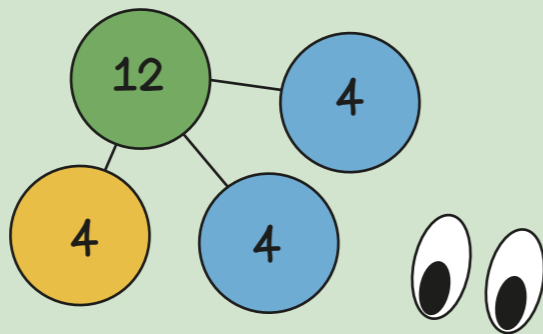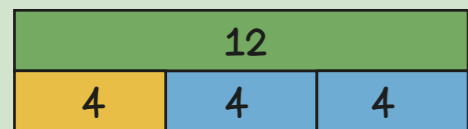

35kg

70g

One third is one of three equal parts
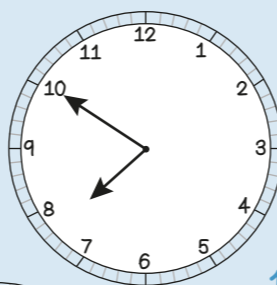
$\frac{1}{3}$ of the whole is yellow

Share equally into 3 groups

12
4 | 4 | 4

12
4
4
4

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

3 of 4 equal parts

fraction
equal
parts
third
equivalent

| 0 | $\frac{1}{4}$ | $\frac{2}{4}$ | $\frac{3}{4}$ | 1 |
| 0 | | $\frac{1}{2}$ | | 1 |

Two quarters are equivalent to one half

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

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

Can Do Maths

60 minutes = 1 hour

24 hours = 1 day

5 minutes to 8

5 minutes past 7

10 minutes to 8

10 minutes past 7

quarter to 8

quarter past 7
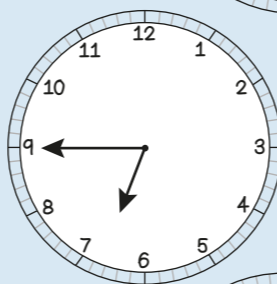
20 minutes to 8

20 minutes past 7

25 minutes to 8

25 minutes past 7

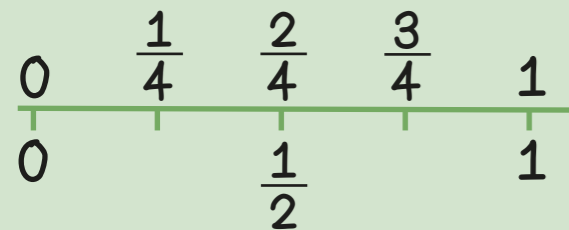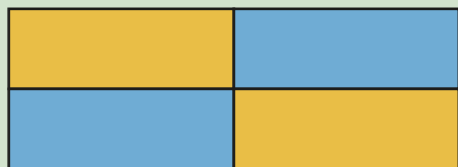Year 2 Term 4

£5 + £10 = £15

Make 38p

38p
30p | 8p | 1p
20p | 10p | 5p | 2p
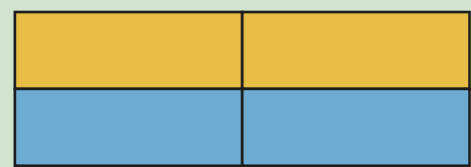
70p in different ways
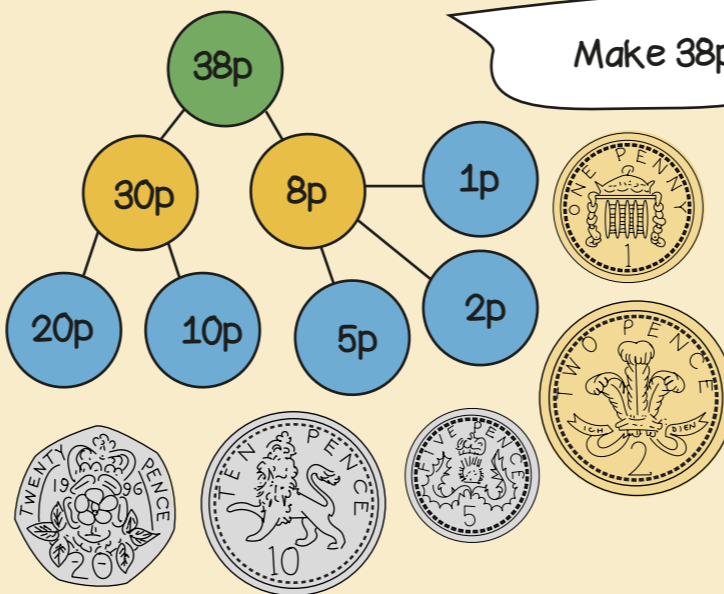
12p change from 50p

Spend 38p

62p change from £1

Year 2 Term 5

Pet	total
dogs	6
cats	4
mice	5
rabbits	1

6 people own dogs
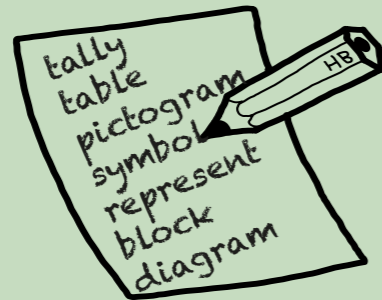
Pet	tally	total
cheese	卌 卌	10
egg	卌 卌 卌 卌	20
ham	卌 卌 卌	15
salad	卌	5

tally
table
pictogram
symbol
represent
block
diagram

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
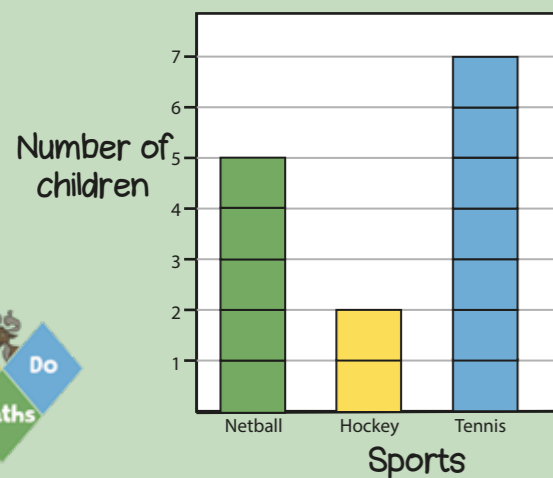
Number of children
7 children play tennis
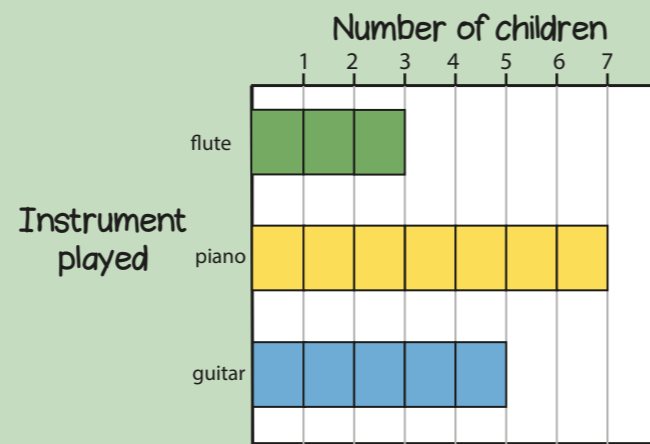
Number of children
7 children play piano
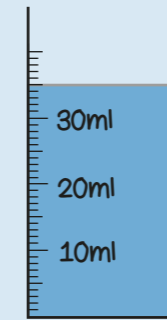
Instrument played: flute, piano, guitar
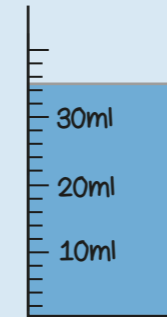
Sports: Netball, Hockey, Tennis

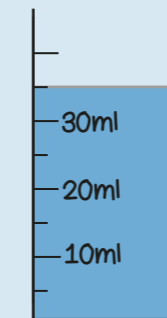www.buzzardpublishing.com

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

30ml
20ml
10ml

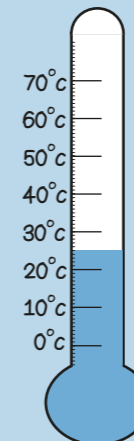If there are 5 steps to increase by 10 then the scale goes up in 2s.

30ml
20ml
10ml

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

30ml
20ml
10ml

1 litre

1 litre > 5 millilitres

The bottle has a greater capacity than the teaspoon

70°c
60°c
50°c
40°c
30°c
20°c
10°c
0°c

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

temperature
hotter
colder
litres
millilitres

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