Maths Knowledge Organiser - Foundation

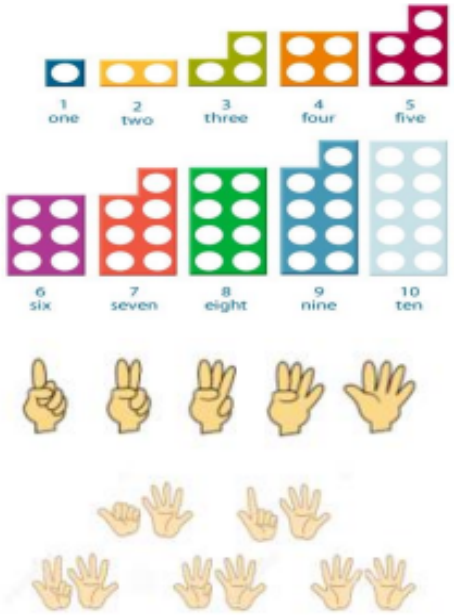
can you count from ...?

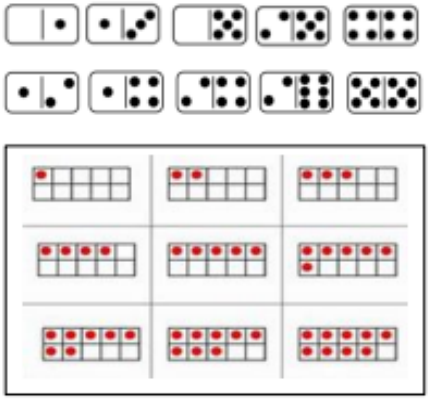
can you count back from...?

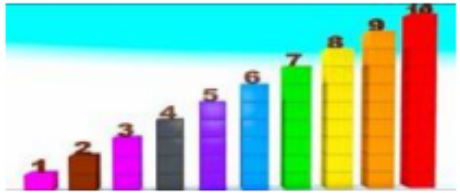
Recognising numbers

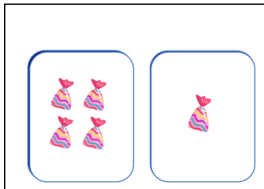
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Representing numbers to 10 in different ways









Are these groups equal or unequal?

Subitising – recognise quantities without counting

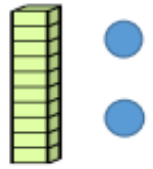


Visual maths

Numbers up to 9 (with 1 digit are called ones) so 3 is

Tens	Ones
0	3

Tens and ones



12 - a two digit number is made from 1 tower of ten and 2 ones

odd

1, 3, 5, 7, 9

even

2, 4, 6, 8, 10

Compare

more many

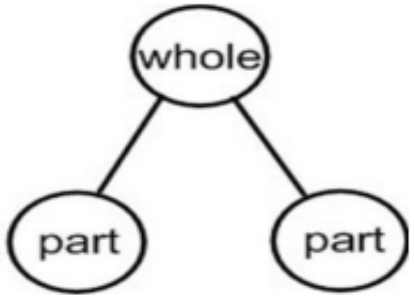


fewer less



greater than less than

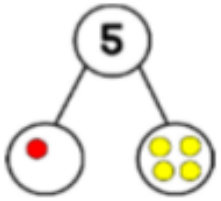
Part whole



We can use part whole and bar models to find missing numbers

a part add on a part = whole

whole – a part = a part



1 + 4 = 5 4 + 1 = 5



3 + 2 = 5

2 + 3 = 5

5 – 3 = 2

5 – 2 = 3

What is the difference between...?

Number bonds within 5

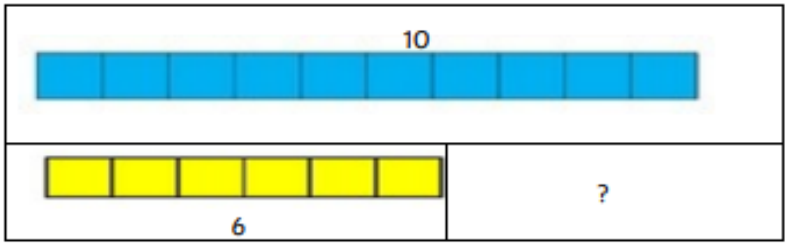
1 = 1 + 0 or 0 + 1

2 = 1 + 1 or 2 + 0 or 0 + 2

3 = 1 + 1 + 1 or 2 + 1 or 1 + 2 or 3 + 0 or 0 + 3

4 = 1 + 1 + 1 + 1 or 3 + 1 or 1 + 3 or 2 + 2 or 4 + 0 or 0 + 4

5 = 1 + 1 + 1 + 1 + 1 or 1 + 4 or 4 + 1 or 3 + 2 or 2 + 3 or 5 + 0 or 0 + 5



+ add, addition, plus, more, and

– take away, subtract,

= equals, the same as, make, sum, total

Number bonds to 10

8 + 2 = 10 2 + 8 = 10

10 – 2 = 8 10 – 8 = 2

Can you solve problems?

Double

To become twice as big

1 doubled is 2

2 doubled is 4

3 doubled is 6

4 doubled is 8

5 doubled is 10

Half

To split something into two equal amounts

half of 10 is 5

half of 8 is 4

half of 6 is 3

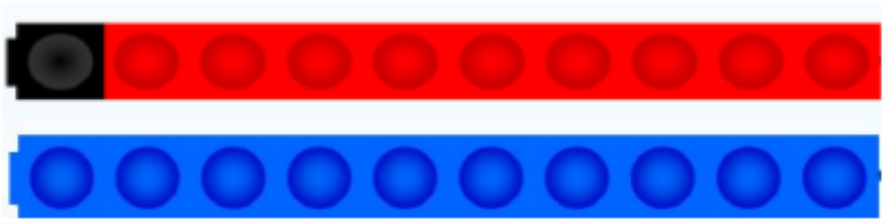
half of 4 is 2

half of 2 is 1



Can you find one more and one less?

We can use bar models to compare: 9 + 1 = (the same as) 10



2D shapes



circle triangle



square rectangle/oblong

Properties of 2D shapes

Straight sides

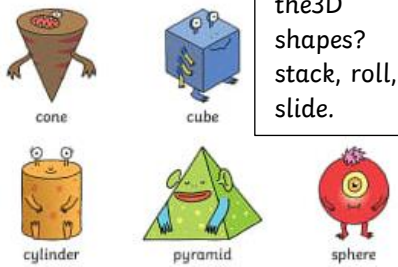
Curved sides

Vertices (corners)

Flat

round

3D shapes



What can we do with the3D shapes? stack, roll, slide.

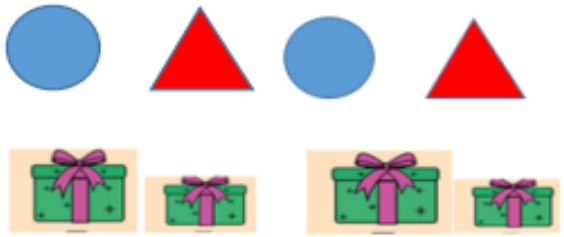
Face (flat surface on a 3D shape)



Capacity



Patterns



Can you use **reasoning** (thinking out loud) to talk about these patterns?

Weight and Language

heavy/ heavier/ heaviest	
Light/ lighter/ lightest	
balanced/ equal	

change
copper
silver
coin
cost
buy
price
spend
how much?



Comparing Length





Which is longer? Which is shorter?

Who is taller? Who is smaller?

Fluency

Knowing key facts, quickly and efficiently