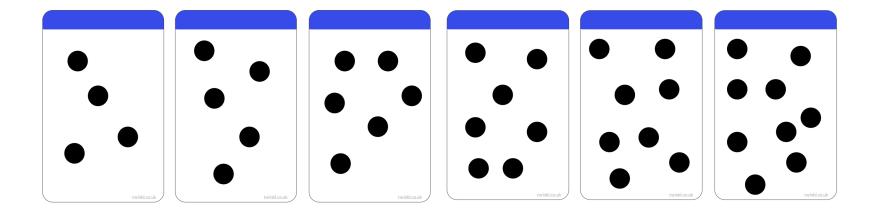
### Welcome to Maths in Year 1!





Pick a dot card.

Get that number of counters.

Arrange the counters on a tens frame.

Compare your arrangement to the random dot arrangement. How does the tens frame help you understand the number?

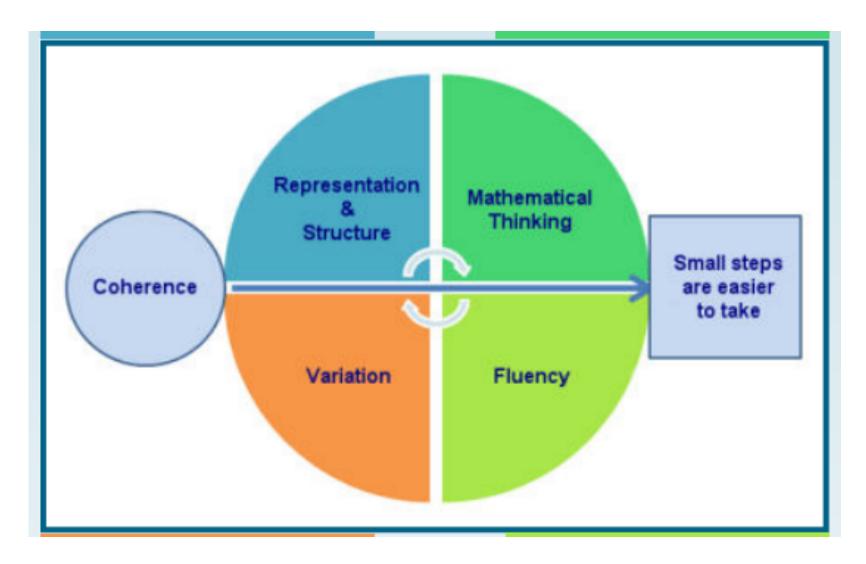
### **Teaching for Mastery in Maths**



A mathematical concept or skill has been mastered when a child can show it in different ways, use mathematical language to explain their ideas and independently apply the concept to new problems in unfamiliar situations.



### **Teaching for Mastery**



### <u>Coherence</u>

 Teaching is designed to enable a coherent learning progression through the curriculum, providing access for all pupils to develop a deep and connected understanding of mathematics that they can apply in a range of contexts.

### **Representation and Structure**

Representations such as objects and pictures are used in lessons expose the mathematical concepts being taught.

### **Mathematical Thinking**

If taught ideas are to be understood deeply, they must not merely be passively received but must be thought about, reasoned with and discussed with others.

Fluency

Quick and efficient recall of facts and procedures and the flexibility to move between different contexts and representations of mathematics.

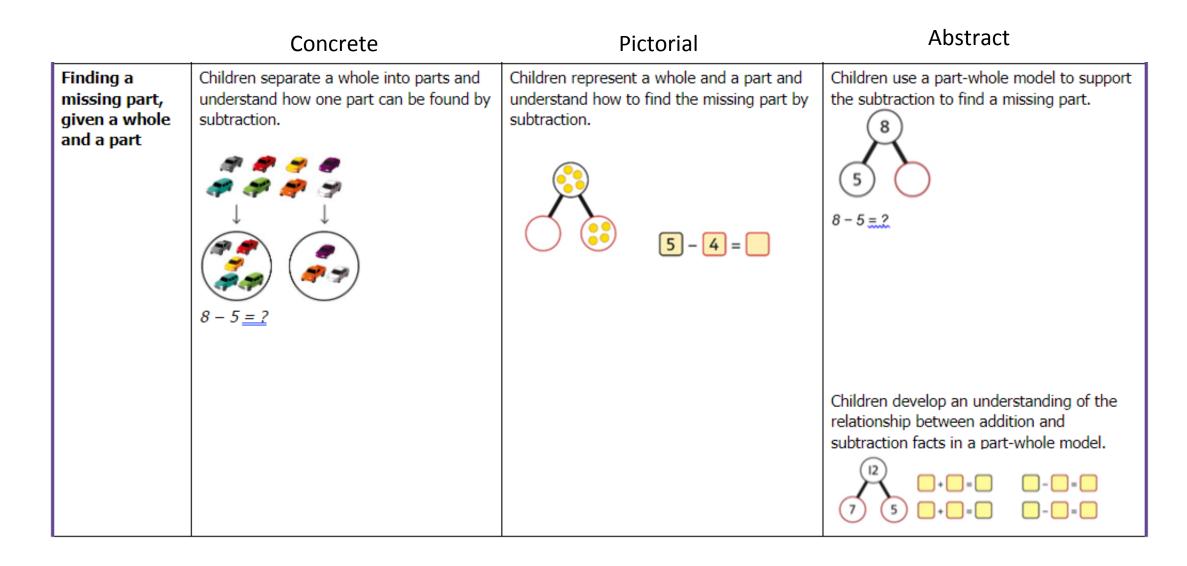
### Variation

Varying the way a concept is initially presented to students, by giving examples that display a concept as well as those that don't display it. Also, carefully varying practice questions so that mechanical repetition is avoided, and thinking is encouraged.

### Key Features

- The class work together on the same topic
- Speedy teacher intervention to prevent gaps
- Challenge is provided by going deeper not accelerating
- Focused, rigorous and thorough teaching
- More time on teaching topics depth and practice

### Concrete Pictorial Abstract approach – Year 1

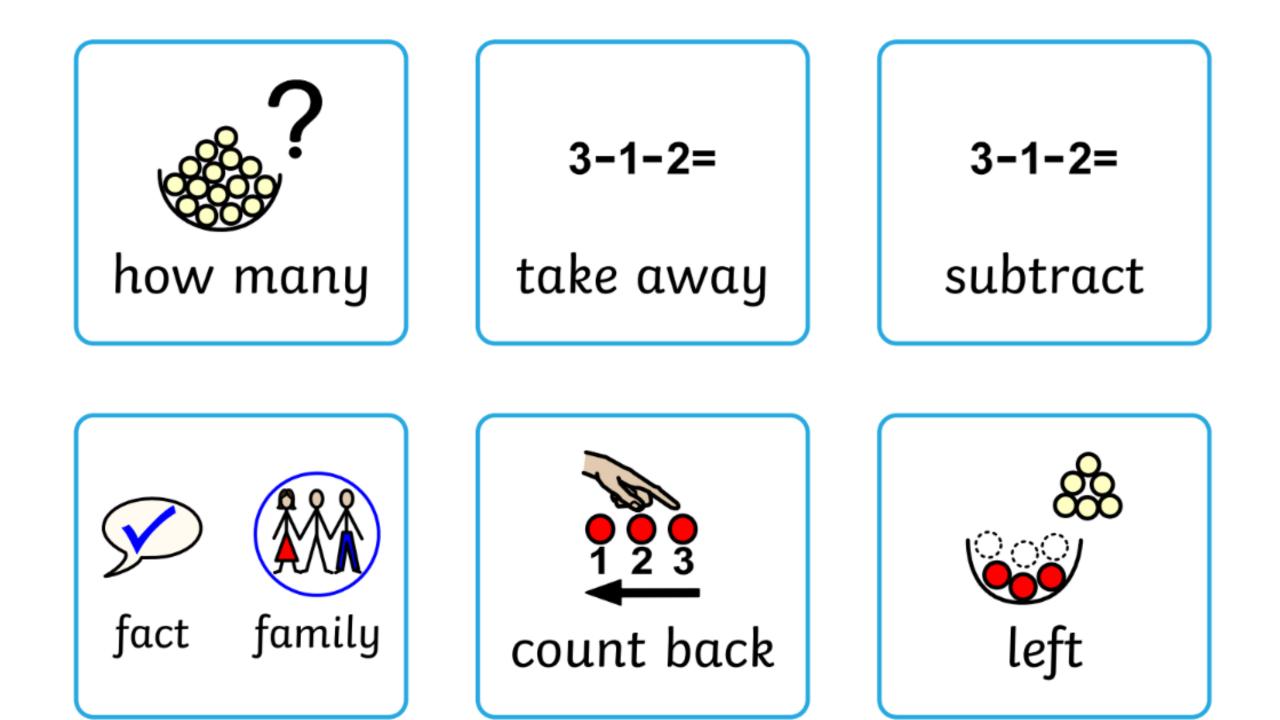






# We are learning to understand how to use numbers, shapes, measures and patterns.





# **High Quality Responses**

# How do you know?



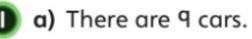
and

## I agree because...

### 7-5=







4 of the cars are for sale.

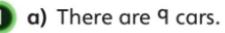
What is the whole? What is a part?

### Break apart 🕕

Discover







4 of the cars are for sale.

What is the whole? What is a part?

#### Share

a) There are 9 cars.

9 is the whole.



4 of the cars are for sale.

4 is a part.



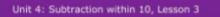
Break the whole into **parts**.

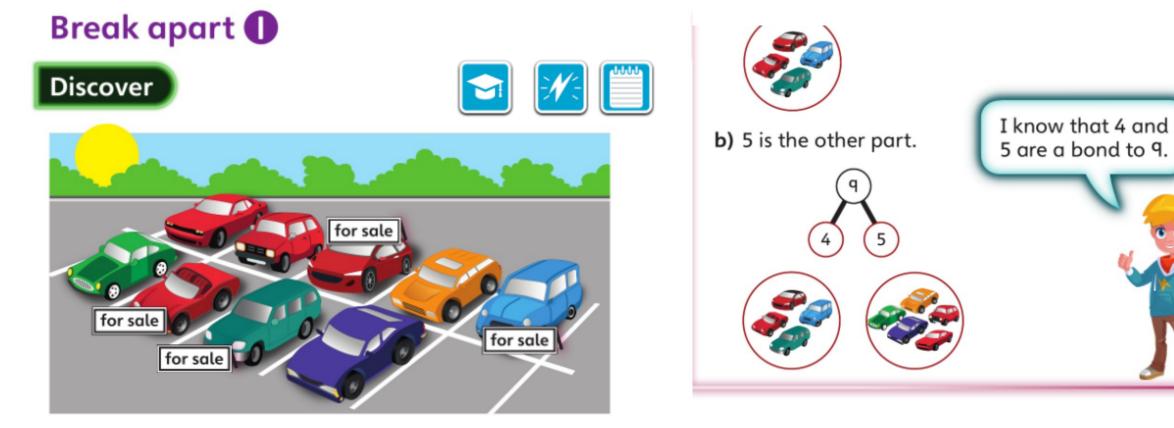
Unit 4: Subtraction within 10, Lesson 3



**b)** What is the other part?

Draw the part-whole model.





b) What is the other part?

Draw the part-whole model.

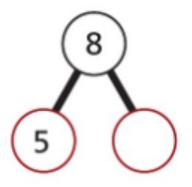
129

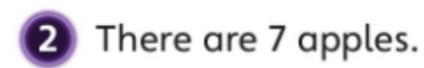


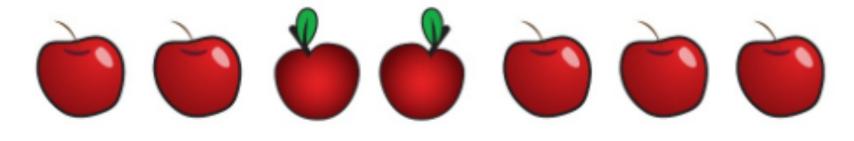
5 of the cubes are Tim's.

The rest are Kat's.

How many of the cubes are Kat's?



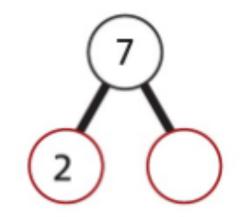


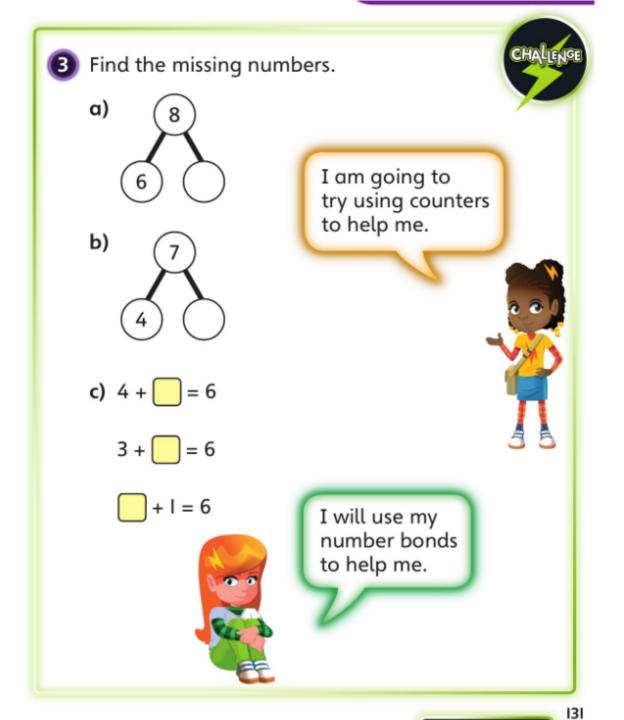


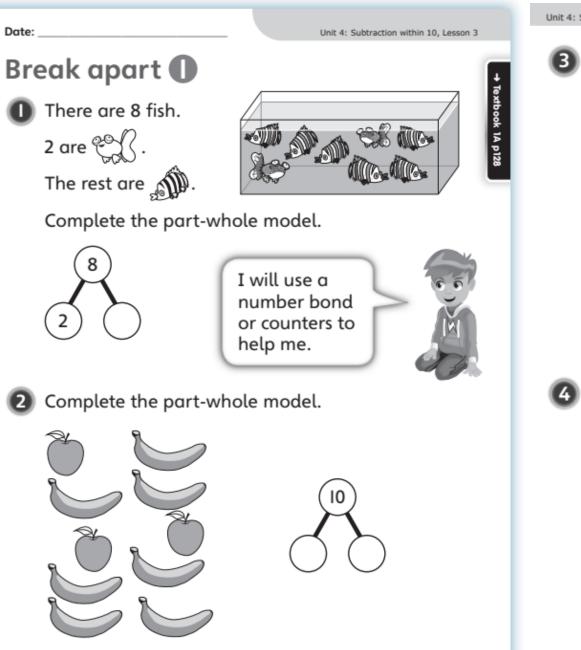
2 have a leaf.

The rest have no leaf.

How many apples have no leaf?

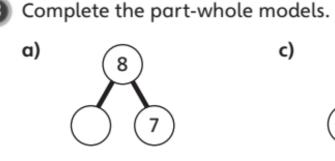


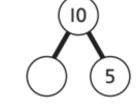




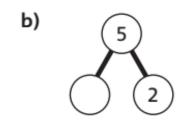
Date:

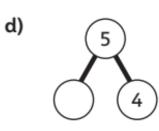
Unit 4: Subtraction within 10, Lesson 3





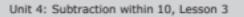
c)





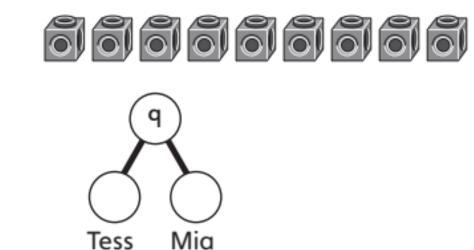


+3 = 4= 4 a) 2 + e) + 2 = 8 = 7 b) f) 6+ + 6 = 8 = **q c**) 3+ g) + 3 = 3 = 10 h) d) 3+



3 cubes belong to Tess.

How many cubes belong to Mia?





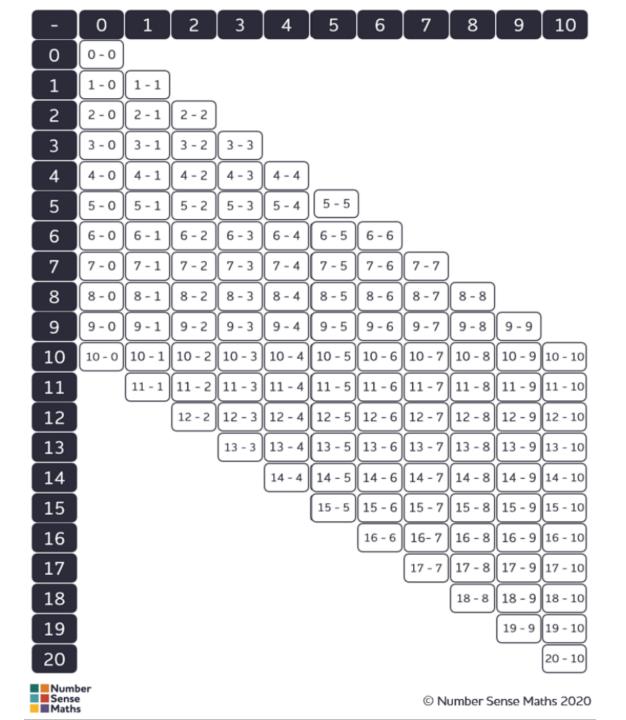
Tell a partner how they can work out the missing number.

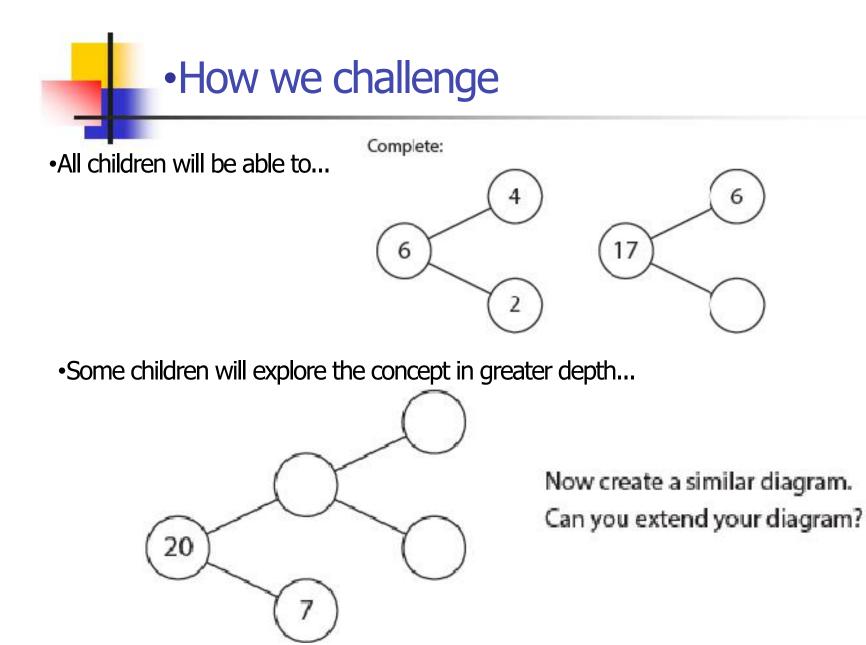
# Number facts – Maths Blast sessions

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



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### How to help at home

- Find numbers in the environment
- Follow a recipe
- Board games track games
- Talk about time days of week, months.
- Go shopping money
- Look for shapes in the local area
- Practise maths number sense activities on Tapestry
- Practise number facts

Websites:

https://www.topmarks.co.uk/maths-games/hit-thebutton

https://www.topmarks.co.uk/Search.aspx?
Subject=16&AgeGroup=2

https://www.bbc.co.uk/bitesize/subjects/zjxhfg8

https://ictgames.com/mobilePage/index.html