# Year 1 Addition and Subtraction

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# The National Curriculum for Year 1

- Number Number and Place Value
- Number Addition and Subtraction
- Number Multiplication and Division
- Number Fractions
- Measurement
- Geometry Properties of Shapes
- Geometry Position and Direction

#### The National Curriculum for Year 1

Read, write and interpret mathematical statements involving addition (+) and equals (=) signs

Represent and use number bonds and related subtraction facts within 20

Add and subtract one-digit and two-digit numbers to 20, including zero

Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 12 = 9 + ?

### About White Rose Maths

#### **Everyone can**

Together, we're building a whole new culture of deep understanding, confidence and competence in maths – a culture that produces strong, secure learning and real progress. No matter what their starting points, we help teachers and learners everywhere to achieve excellence.

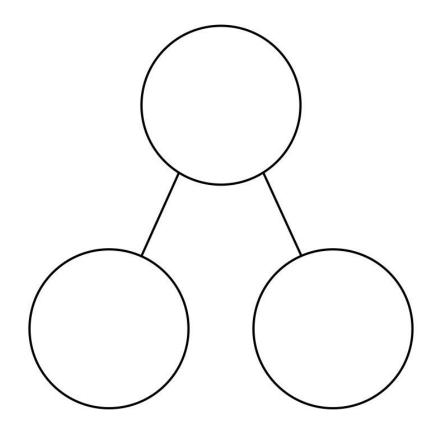
#### Year 1 – Yearly Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value (within 10)				Number: Addition and Subtraction (within 10)			Geometry: Shape	Number: Place Value (within 20)		Consolidation	
Spring	Number: Addition and Subtraction (within 20)				(within 50)			Measurement: Length and Height		Measurement: Weight and Volume		Consolidation
Summer	a (Reinfoi	er: Multip nd Divisio rce multip .0 to be in	on Num ples of 2, Fract			Geometry: position and direction	Number: Place Value (within 100)		Measurement : money Lime		Consolidation	

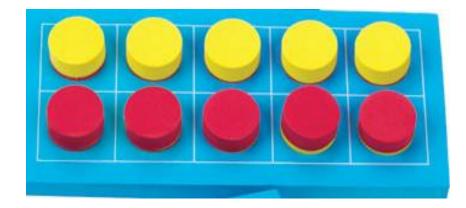
#### Resources and models

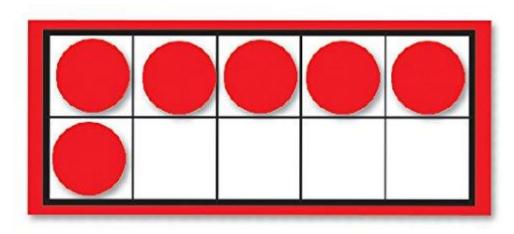
Throughout school we use a variety of models and resources that support the children to visually conceptualise when they are solving calculations.

### Part whole model

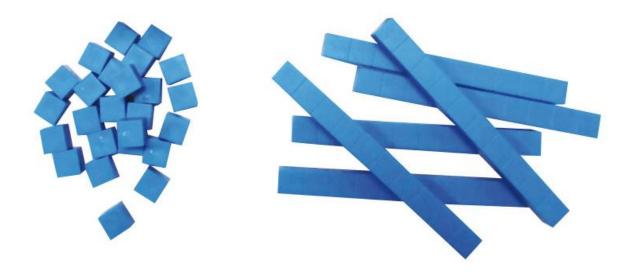


#### Tens frames





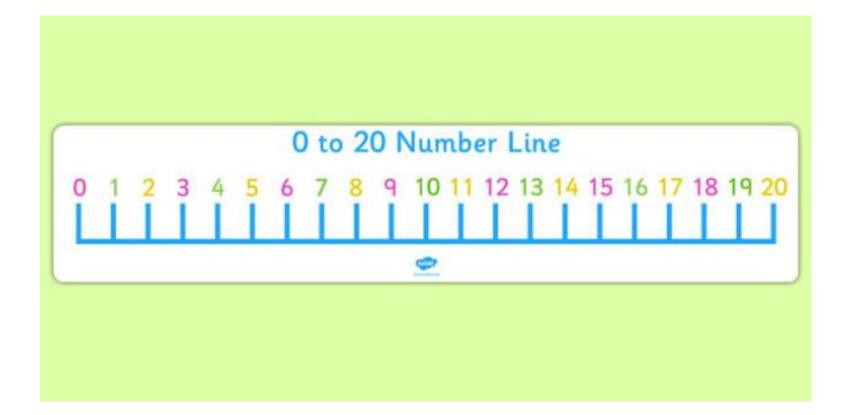
#### Dienes



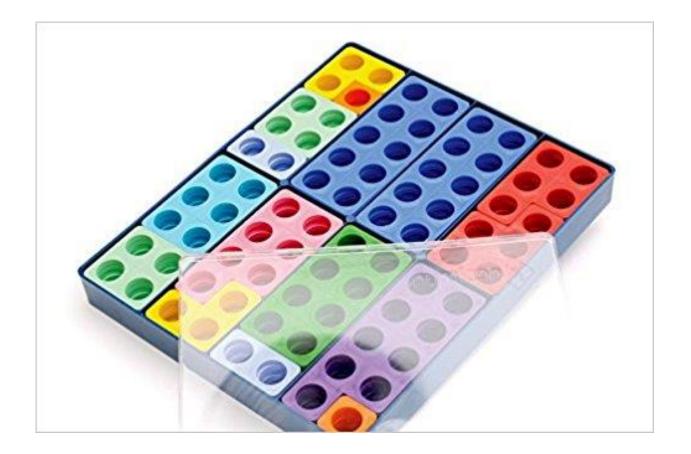
#### Tens and ones frames

Tens	Ones

#### Number line

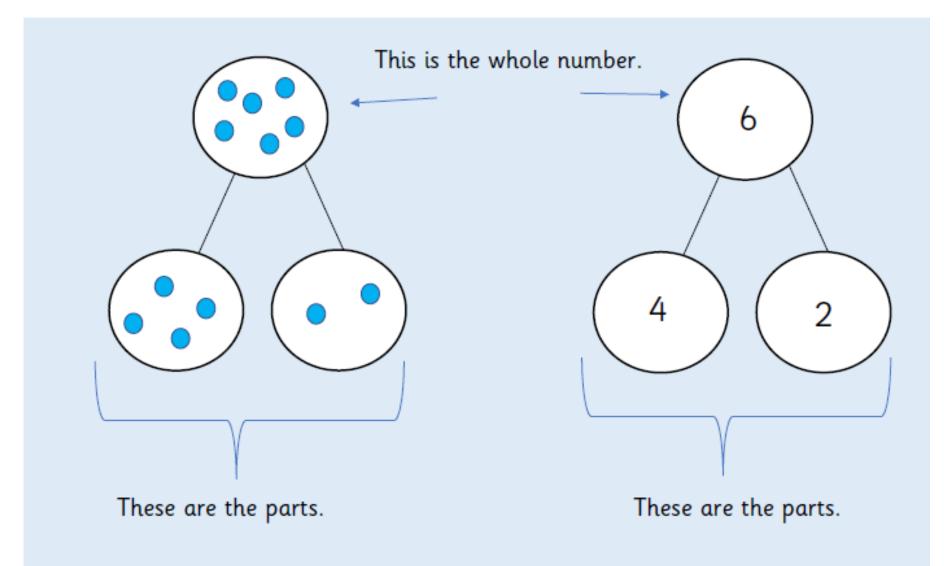


#### Numicon



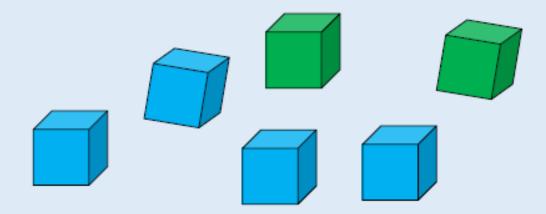
Read, write and interpret mathematical statements involving addition (+) and equals (=) signs

#### Part Whole Model



### The Addition Symbol

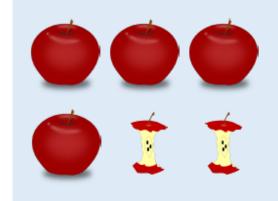
#### 4 blue cubes plus 2 green cubes is equal to 6 cubes.



As a number sentence this is:

$$4 + 2 = 6$$

### Taking Away – How Many Left?



At first there were \_\_\_\_\_ apples.

Then \_\_\_\_\_ were eaten.

Now there is \_\_\_\_\_ .

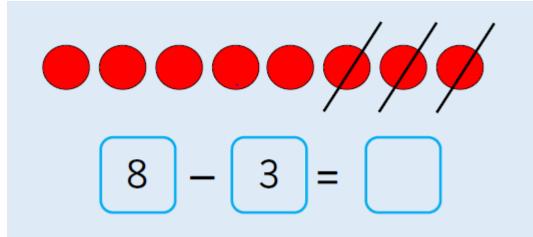
There were 6 birds in the tree and 4 fly away.

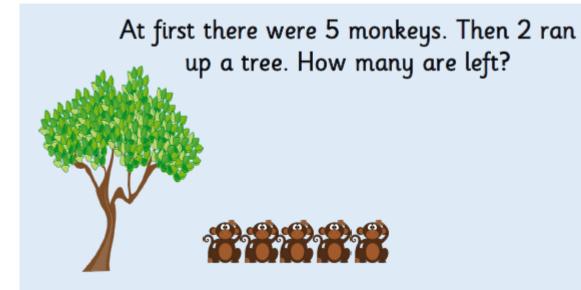
Then

Now

First

# The Subtraction Symbol





Use counters/ cubes to help you solve this and complete:

=

Aisha has 6 footballs. She gives 6 away. How many does she have left?





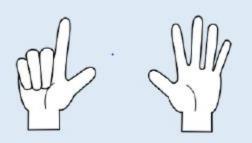


Represent and use number bonds and related addition facts within 20

#### Number Bonds to 10



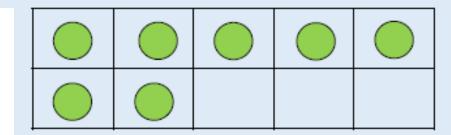
Songul shows a number on her fingers.



 $6 + \_ = 10$   $3 + \_ = 10$ 

Complete the spots and the number sentences.

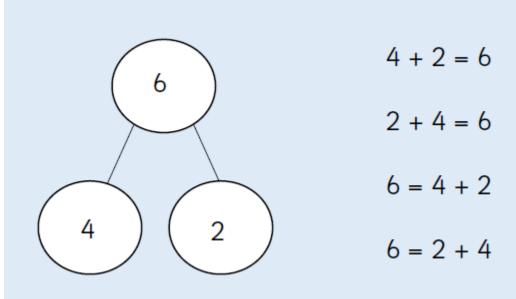
How many fingers are needed to make 10?



How many more to make 10?

7 + = 10

### Fact Families



Using the counters, how many calculations can you create?

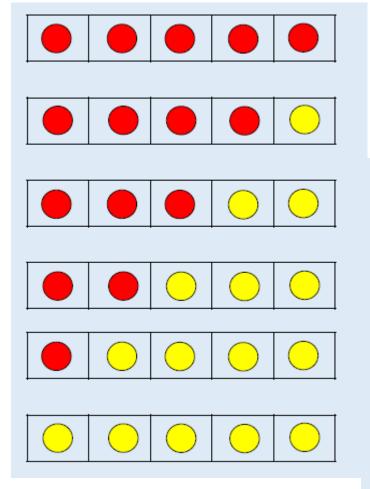
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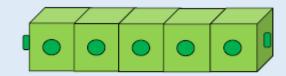
+

+

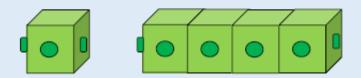
# Systematic Number Bonds

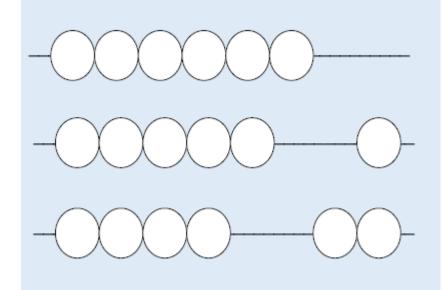


Here are 5 cubes.



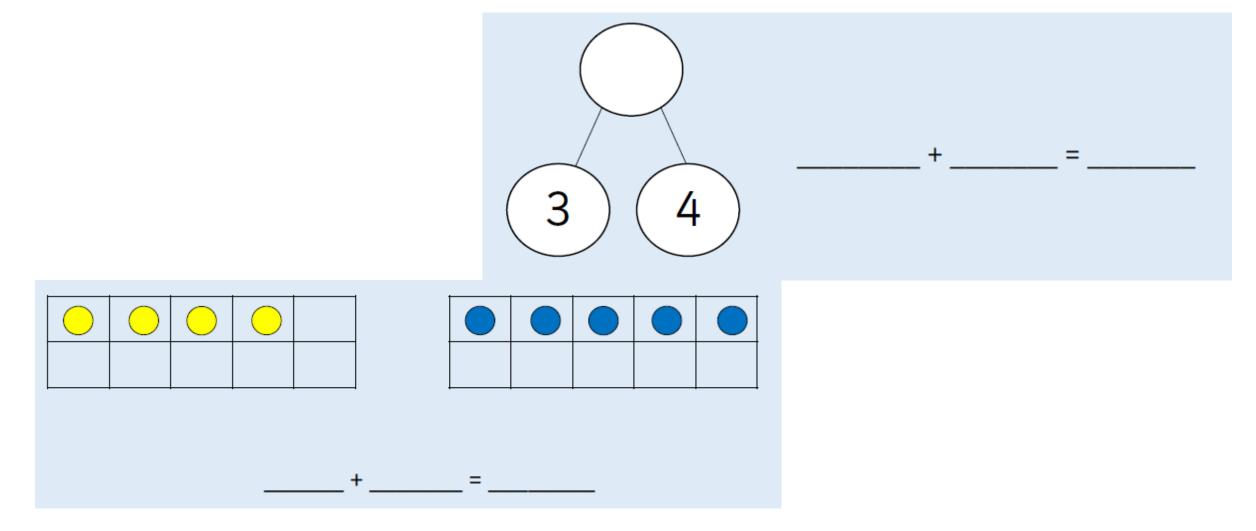
You can break them apart to find all the different number bonds to 5.



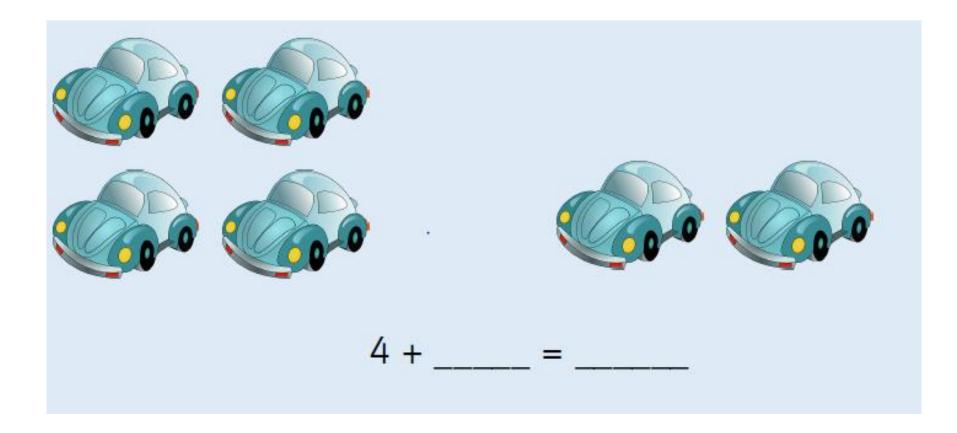


Add one-digit and two-digit numbers to 20, including zero

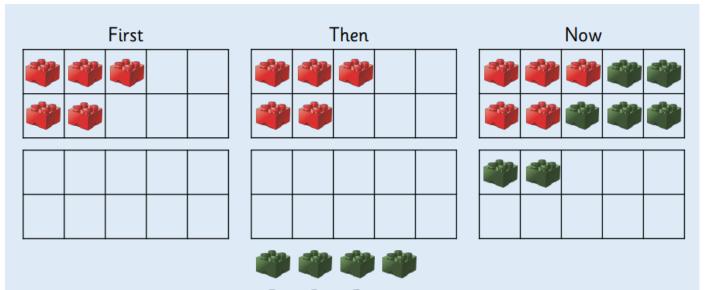
# Adding together



## Adding More



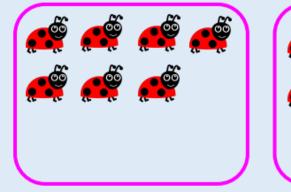
# Counting On

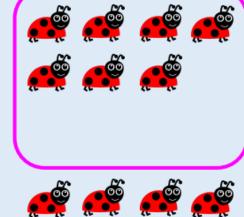


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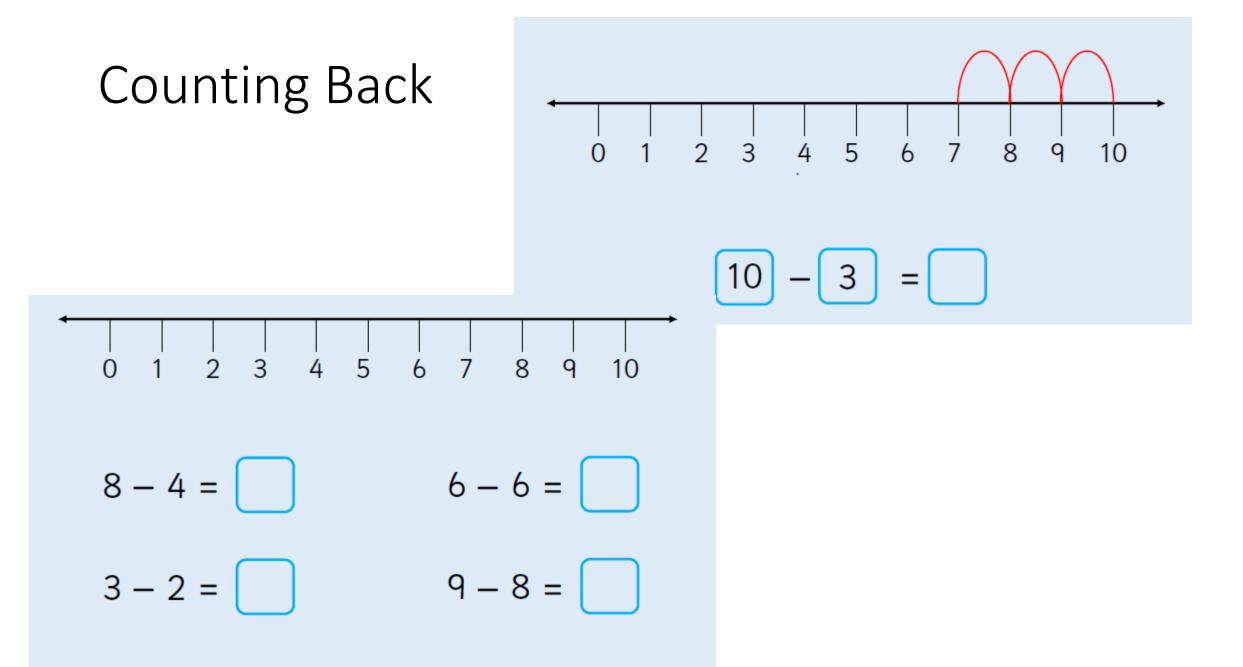
First there were \_\_\_\_ ladybirds. Then \_\_\_\_ more joined the group. Now there are \_\_\_\_ ladybirds.

# Finding a part, breaking apart

0 3 8 = There are \_\_\_\_\_ dogs that do not have spots.

There are 7 party hats altogether. 5 of them are red. The rest are blue.

How many are blue?



# Finding the Difference

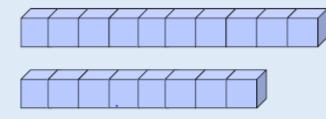
How many more cakes does Charlotte have than Kat?

Charlotte has \_\_\_\_\_ more cakes than Kat.

Charlotte

💮 Kat

What is the difference between 10 and 8?



The difference between 10 and 8 is \_\_\_\_

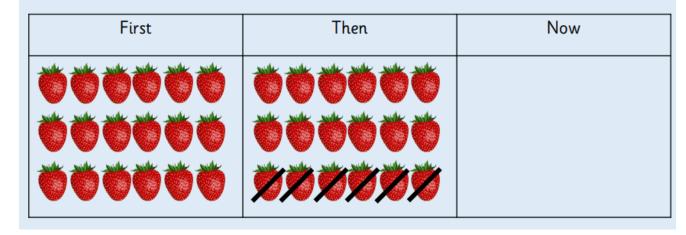
10 – 8 = \_\_\_\_\_

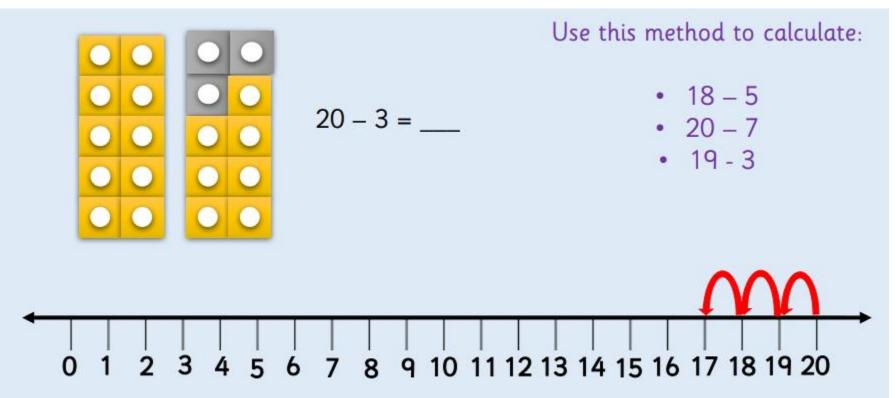
Mohamed has 5 sweets and Catherine has 2 sweets.

How many more sweets does Mohamed have?

# Subtraction: Not Crossing 10

There were 18 strawberries on a plate and Josie ate 6 of them.

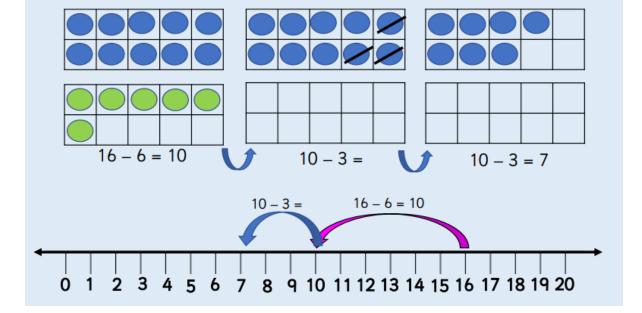


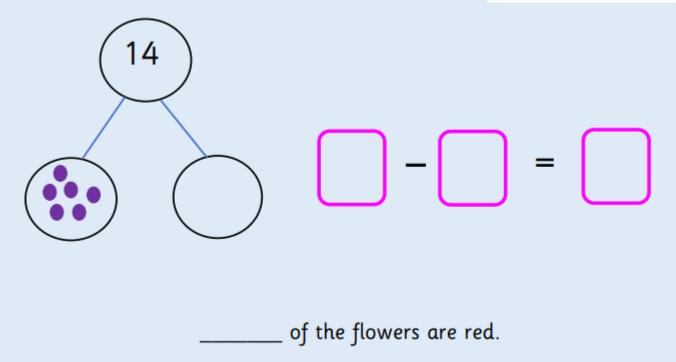


# Subtraction: Crossing 10

There are 14 pink and purple flowers in a vase.

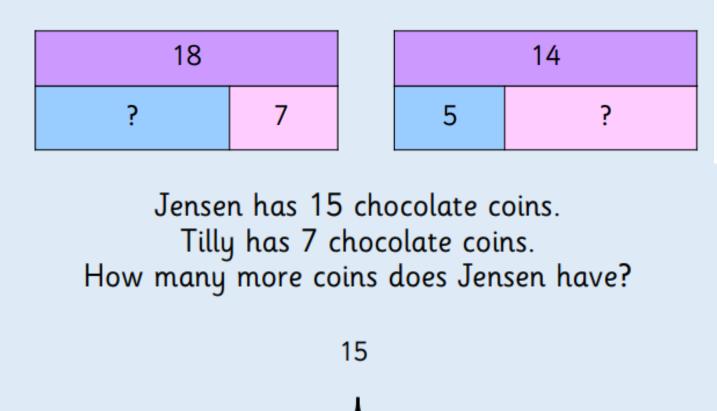
6 of them are purple. How many are pink?

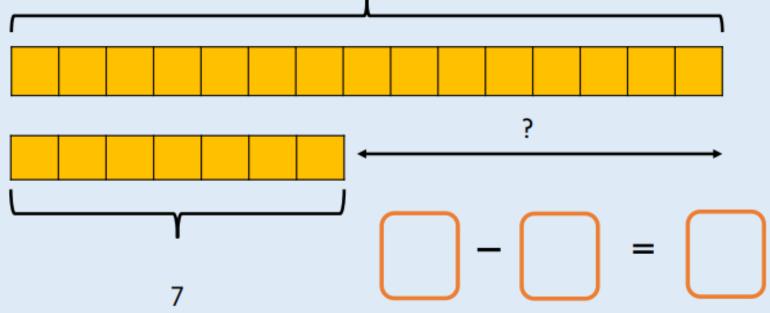




#### Missing Numbers

My story is: There are 5 sweets. 3 of them are red and 2 of them are blue. 8 5 3





# At home support

- Mental recall: number bonds up to 20
- Addition and subtraction facts
- Board games
- Maths in the environment
- Logical reasoning games (e.g. jigsaws, Sudoku, lego, construction)
- Online games (e.g. mathletics, top marks, see Year 1 booklet)