



Branfil
Primary School

Welcome to the Year 1 Maths Workshop





Branfil
Primary School

In this workshop we will:

- Discuss the Year 1 maths curriculum
- Schemes of work - White Rose
- How we teach maths in Year 1
- Resources and manipulatives we can recommend
- Ways to support your child at home
- TTRS
- Give you a chance to practice the activities with your children



Branfil
Primary School

Year 1 programme of study

Number - number and place value

Number - addition and subtraction

Number - multiplication and division

Number - fractions

Measurement

Geometry - properties of shapes

Geometry - position and direction





Number - number and place value

Pupils should be taught to:

- count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
- count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s, 10s
- given a number, identify 1 more and 1 less
- identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
- read and write numbers from 1 to 20 in numerals and words

Pupils practise counting (1, 2, 3...), ordering (for example, first, second, third...), including



Number - addition and subtraction

Pupils should be taught to:

- read, write and interpret mathematical statements involving addition (+), subtraction (-) 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 0
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$

Problems should include the terms: put together, add, altogether, total, take away, distance between, difference between, more than and less than, so that pupils develop the concept of addition and subtraction and are enabled to use



Number - multiplication and division

Pupils should be taught to:

- **solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher**

Through grouping and sharing small quantities, pupils begin to understand: multiplication and division; doubling numbers and quantities; and finding simple fractions of objects, numbers and quantities.



Number - fractions

Pupils should be taught to:

- **recognise, find and name a half as 1 of 2 equal parts of an object, shape or quantity**
- **recognise, find and name a quarter as 1 of 4 equal parts of an object, shape or quantity**

Pupils are taught to recognise and find half a length, quantity, set of objects or shape. Pupils connect halves and quarters to the equal sharing and grouping of sets of objects and to measures, as well as recognising and combining halves and quarters as parts of a whole.



Measurement

Pupils should be taught to:

- compare, describe and solve practical problems for:
- lengths and heights [for example, long/short, longer/shorter, tall/short, double/half]
- mass/weight [for example, heavy/light, heavier than, lighter than]
- capacity and volume [for example, full/empty, more than, less than, half, half full, quarter]
- time [for example, quicker, slower, earlier, later]
- measure and begin to record the following:
- lengths and heights
- mass/weight



Measurement

Pupils should be taught to:

- recognise and know the value of different denominations of coins and notes
- sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]
- recognise and use language relating to dates, including days of the week, weeks, months and years
- tell the time to the hour and half past the hour and draw the hands on a clock face to show these times

Pupils move from using and comparing different types of quantities and measures using non-standard units to using manageable common standard units. Pupils



Geometry - properties of shapes

Pupils should be taught to:

- recognise and name common 2-D and 3-D shapes, including:
- 2-D shapes [for example, rectangles, squares, circles and triangles]
- 3-D shapes [for example, cuboids, cubes, pyramids and spheres]



Geometry - position and direction

Pupils should be taught to:

- **describe position, direction and movement, including whole, half, quarter and three-quarter turns**

Pupils use the language of position, direction and motion, including: left and right, top, middle and bottom, on top of, in front of, above, between, around, near, close and far, up and down, forwards and backwards, inside and outside.

Pupils make whole, half, quarter and three-quarter turns in both directions



Branfil
Primary School

Maths Scheme - White Rose

We follow schemes of work from year 1 onwards, such as White Rose Maths and Power Maths. We use a selection of statements, questions and ideas from these schemes to help us plan engaging, exciting lessons for your children. As well as that, we add additional challenges and more concrete resources for practice.

<https://whiterosemaths.com/>



Branfil
Primary School

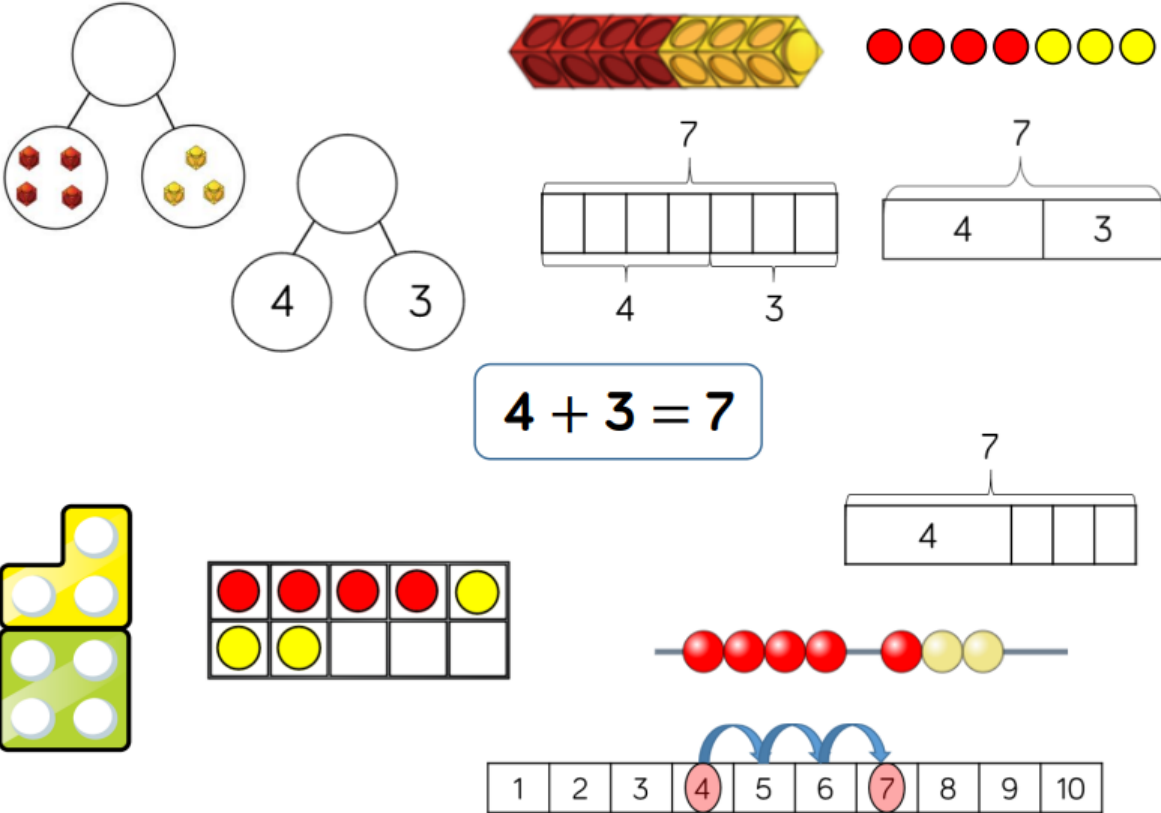
Maths in Year 1 - The CPA approach

When working with children we introduce them to different concrete resources (the resources on the tables) then we move them onto pictorial ways of working, such as recording in a pictorial way and then abstract, for example writing a numbers.

Branfil Knowledge Organisers

Year 1- Key Vocabulary

Skill: Add 1-digit numbers within 10

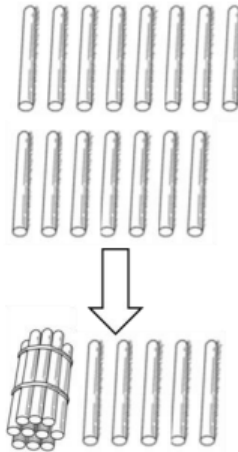
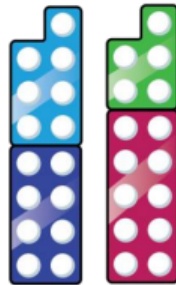
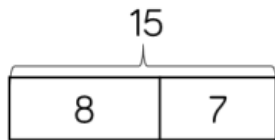
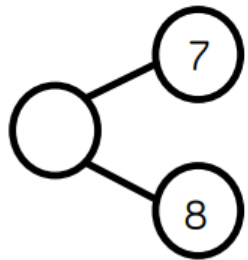


$4 + 3 = 7$

1 2 3 4 5 6 7 8 9 10

Sort
Group
Digits
One More
One Less
Count back
Matched
Most
Greatest
Fewer
Fewest
Equal to =
Number line

Skill: Add 1 and 2-digit numbers to 20

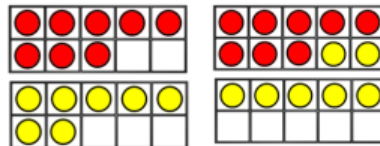
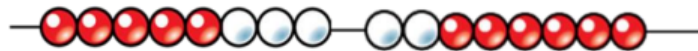


$$8 + 7 = 15$$

$$8 + 7 = 15$$



+2 +5



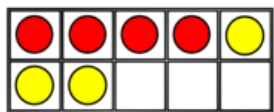
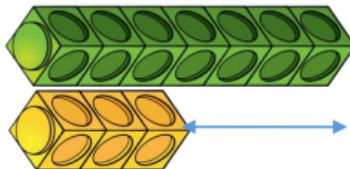
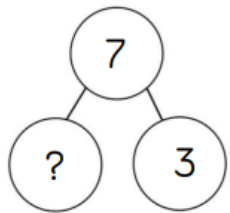
$$8 + 7 = 15$$



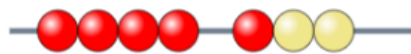
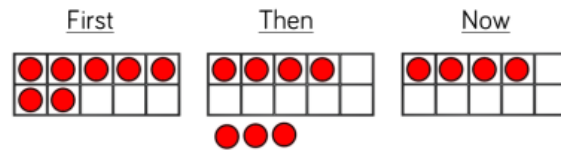
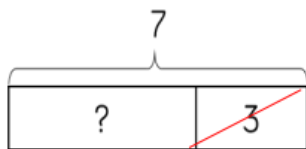
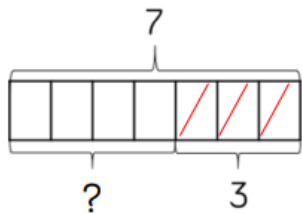
Year 1/2- Key Vocabulary

Altogether
In total
Plus
Add
Total
Tens
Ones
Difference
Bar Model
Represent

Skill: Subtract 1-digit numbers within 10



$$7 - 3 = 4$$



Year 1 - Key Vocabulary

How many are left?

Take away

Subtract

Count Backwards

How many more

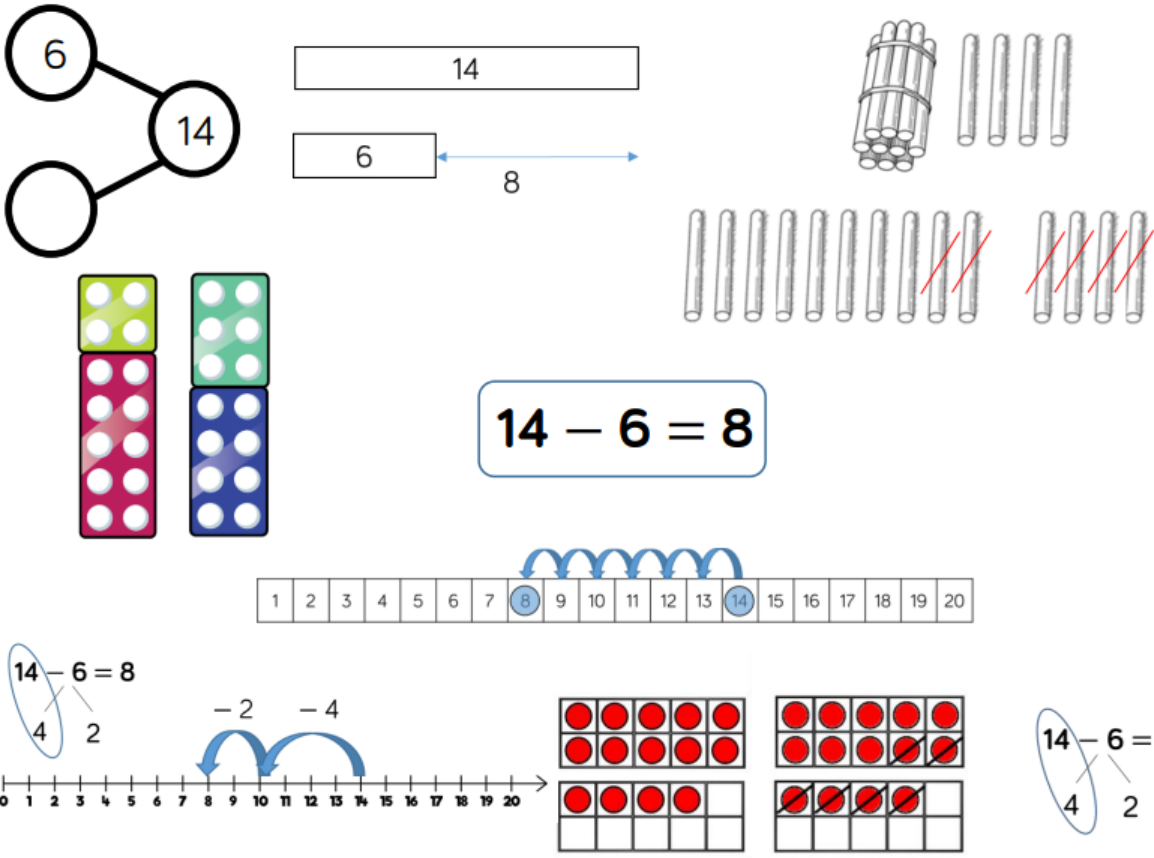
How many fewer

Difference

Year 1/2 - Key Vocabulary

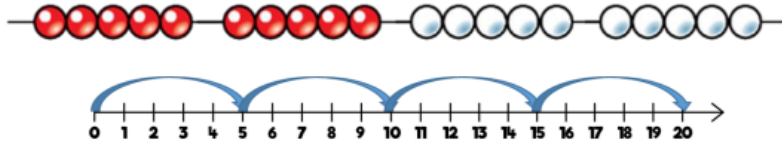
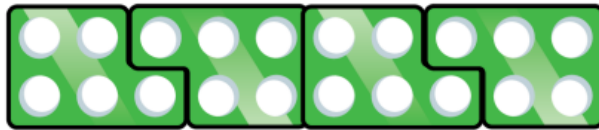
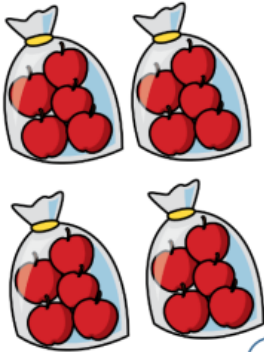
- How many are left?
- Take away
- Subtract
- Count Backwards
- How many more
- How many Fewer
- Difference
- Total
- Tens
- Ones
- Subtract
- Difference
- Bar model
- Represent

Skill: Subtract 1 and 2-digit numbers to 20

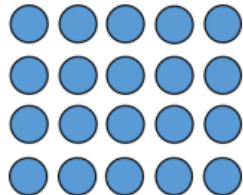
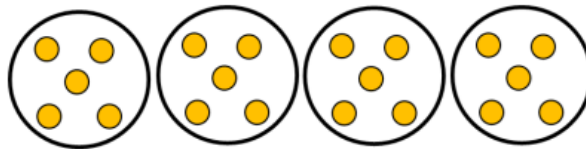
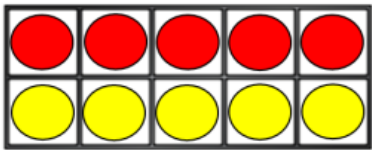
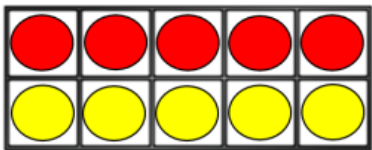


$14 - 6 = 8$

Skill: Solve 1-step problems using multiplication



One bag holds 5 apples.
How many apples do 4 bags hold?



$$5 + 5 + 5 + 5 = 20$$

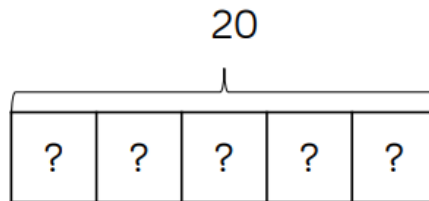
$$4 \times 5 = 20$$

$$5 \times 4 = 20$$

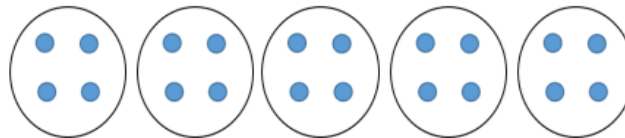
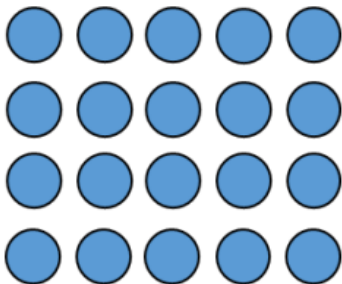
Year 1/2 - Key Vocabulary

Equal groups
Multiplication (x)
Times-table
Times
Array
Row
Column
Double
Twice

Skill: Solve 1-step problems using multiplication (sharing)



There are 20 apples altogether.
They are shared equally between 5 bags.
How many apples are in each bag?



$$20 \div 5 = 4$$

Year 1/2 - Key Vocabulary

Equal groups

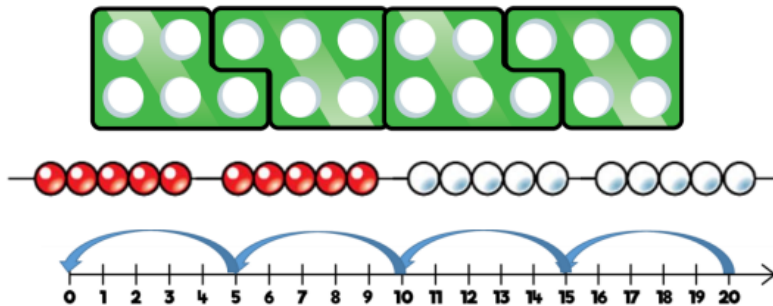
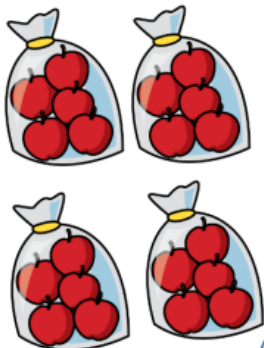
Share

Multiplication (x)

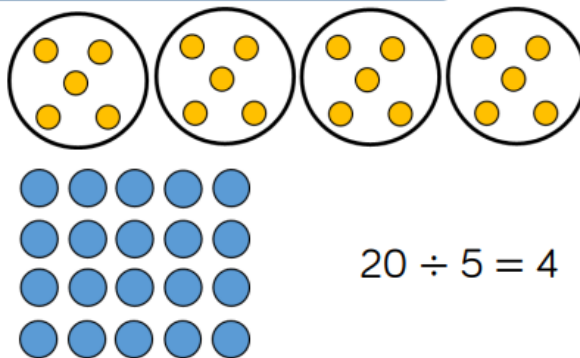
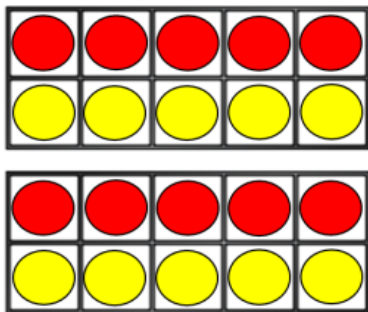
Times-tables

Times

Skill: Solve 1-step problems using division (grouping)



There are 20 apples altogether.
They are put in bags of 5.
How many bags are there?



$$20 \div 5 = 4$$

Year 1/2 - Key Vocabulary

Equal groups
Share
Division (\div)
Times-tables
Times

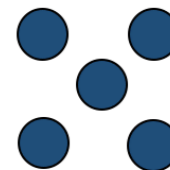
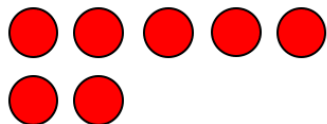


What does a Maths lesson look like in Year 1?

Flashback 4

Year 1 | Week 1 | Day 2

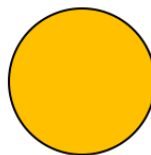
1) Work out $7 + 4$



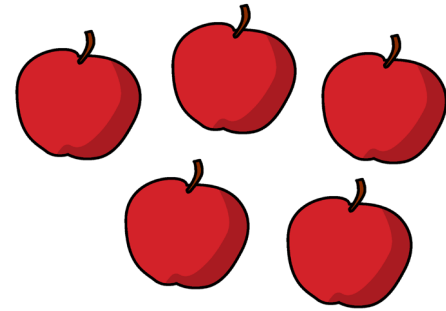
2) What is $6 + 4$?

3) Write the number **seventeen** in numerals.

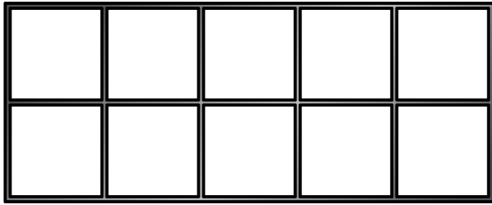
4) Name the shape.



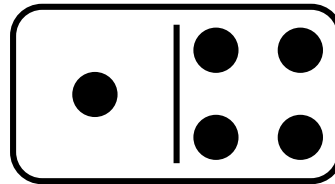
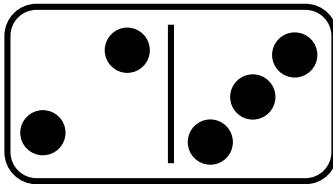
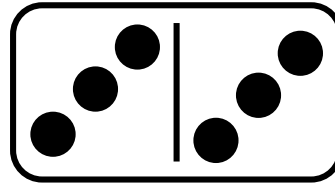
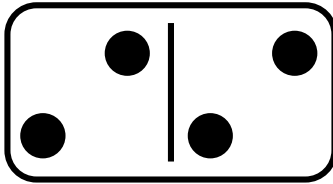
1) How many apples are there?



2) What is 1 more than 6?

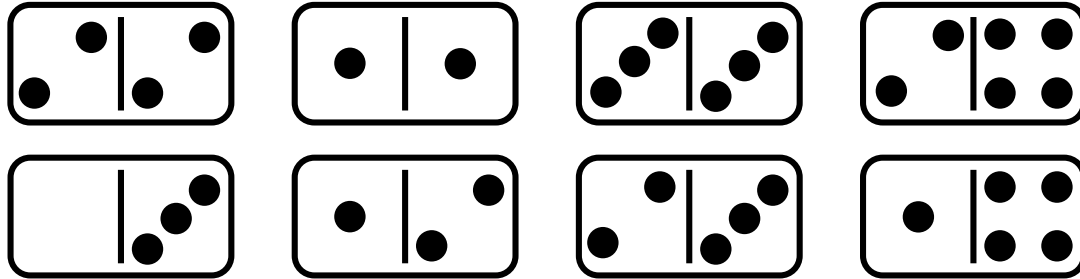


3) Which dominoes have five spots?

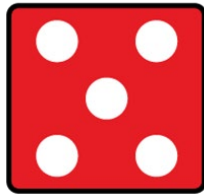




Collect some dominoes.



Roll a dice.



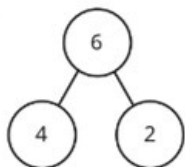
Same number of spots	Fewer spots	More spots



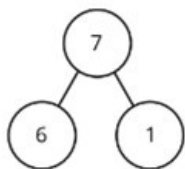
Fact families - addition facts

1 Write the fact families.

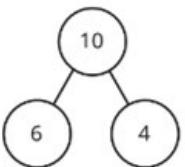
a)



b)

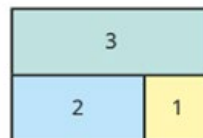


c)

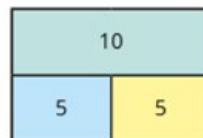


2 Write the fact families.

a)



b)



3 Use the digit cards to write the fact family.



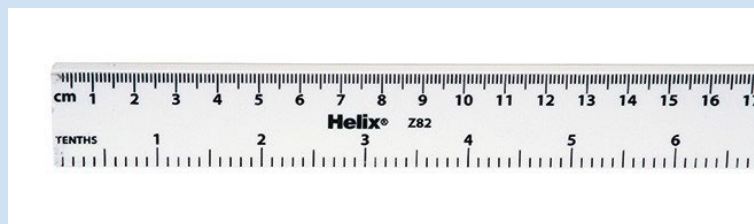
4 Work with a partner to write a different fact family.



Resources and manipulatives we recommend:

- Multilink
- Number track
- Counters
- Dice
- Rulers
- Number lines
- Numicon
- Hundred square
- Flashcards
- songs

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





Branfil
Primary School

How to support your child at home:

- Play maths games (more info on the next slide...)
- Play mental maths games including counting in different amounts, forwards and backwards.
- Encourage opportunities for telling the time.
- Encourage opportunities for counting coins and money; finding amounts or calculating change when shopping.
- Look for examples of 2D and 3D shapes around the home.
- Identify, weigh or measure quantities and amounts in the kitchen or in recipes.
- Play games involving numbers or logic, such as dominoes or card games.



Branfil

Primary School

TTRS - Times table rockstars!

7th March - 10th March 2023

2 Holly

2 Cedar

2 Beech

14th March - 17th March 2023

2 Holly

2 Cedar

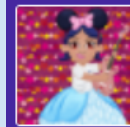
2 Beech

21st March - 24th March 2023

2 Holly

2 Cedar

2 Beech



EMILY KNAPP
NEW ARTIST



Play in the studio
to set your speed



5,620

Current coins



Profile



My Stats



Charts



Settings



Logout



Branfil

Primary School

White Rose 1 minute maths

White Rose Maths
White Rose Education Services Limited
4.4 ★ | 166 ratings | Education

Install

Screenshots

The first screenshot shows the app's main menu with a green frog character and the text "1-minute MATHS". Below the character are five buttons for different math operations: "Subitising" (yellow), "Addition" (teal), "Subtraction" (pink), "Multiplication" (green), and "Division" (purple).

The second screenshot shows a ten-frame on a smartphone screen. The ten-frame is a 2x5 grid of circles. The top row has 5 blue circles, and the bottom row has 2 blue circles. Below the ten-frame is a numeric keypad with digits 0 through 10.



Branfil
Primary School

Now to put this in practice!





Can you complete these questions together...

3 Put a different number in each box.

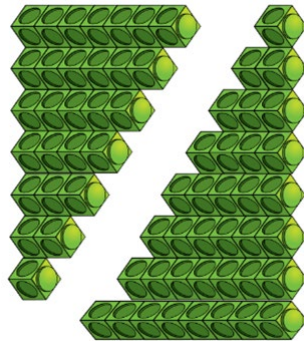
a) > 4
4 >

c) 8 >
 < 6

b) 1 >
 > 9

d) <
 >

What bonds to 8 can you find?



Complete the fact family.

10	
3	7

___ + ___ = ___
 ___ = ___ + ___
 ___ + ___ = ___
 ___ = ___ + ___



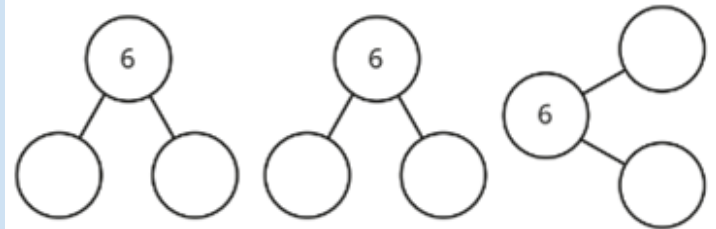
Make a tower with two different-coloured cubes.



One part is ___ and the other part is ___
 The whole is ___
 ___ plus ___ is equal to ___
 ___ + ___ = ___

The whole is 6

Draw three different part-whole models to show this.





Branfil
Primary School

Thank you for coming.

All of the slides will be uploaded to both the school website and Google Classroom.

Mrs Robinson