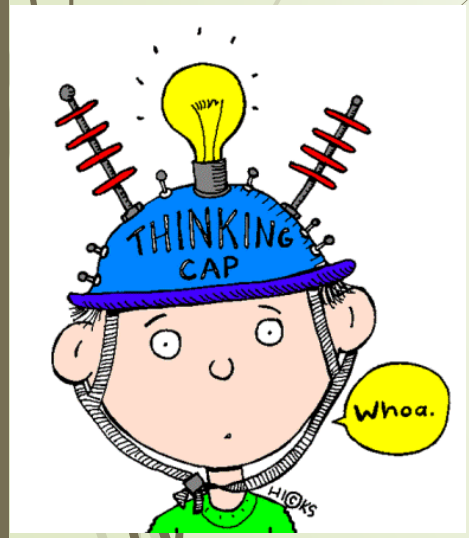
First Learner

Match these number sentences up their partners of equal value.



20 + 8	30 + 28
50 + 8	70 + 18
80 + 8	10 + 18
90 + 8	50 + 48

How did you do it?

How to help my child at home

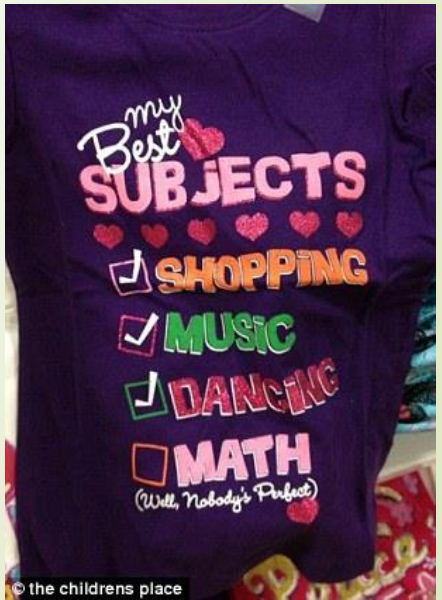
Oliver Mayhew
KS1 Maths Leader and SLE

Aims of the session

- Look briefly at the maths curriculum
- Discuss some key vocabulary
- Look at and try some strategies that you can use at home to support your child
- Look at games and websites that you can use at home

Attitudes to maths

- Maths is for everyone
- Growth mind-set – The Power of Yet
- It is ok to not know something
- Maths is all around us



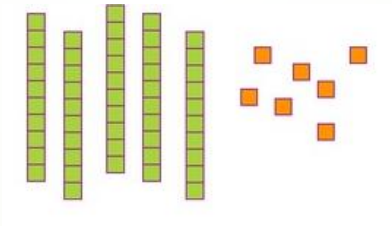
Mastery Maths – What is it?

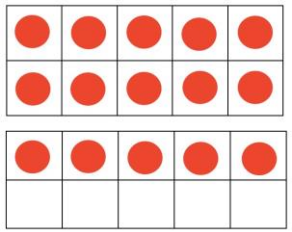
- The aim is to have all children to master areas of the curriculum before they move on.
- Number fluency
- Mathematical reasoning
- Problem solving

CPA

- Concrete

- Pictorial





- Abstract

five 5 3 + 2 = 5

Place Value

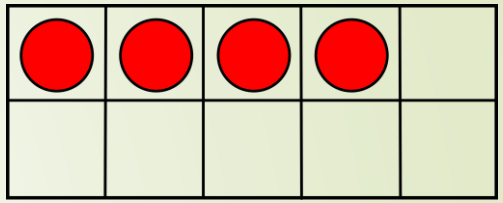
- A number is made up of digits. **Place Value** is the value of each digit in a number. What does that number mean and represent?

- Place value is the most important part of maths. Children need to have a good understanding of place value before anything else.

Key words:

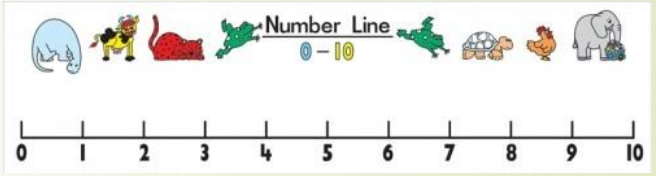
- digits
- numerals
- tens
- ones
- partitioning

Place Value in EYFS



Numbers to 20

- Counting one to one
- Knowing one more and one less
- Ordering numbers
- Form digits 0-9
- Represent the numbers in different ways

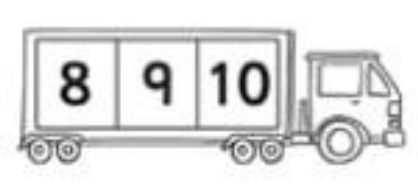


Place Value in Year One

Numbers to 100

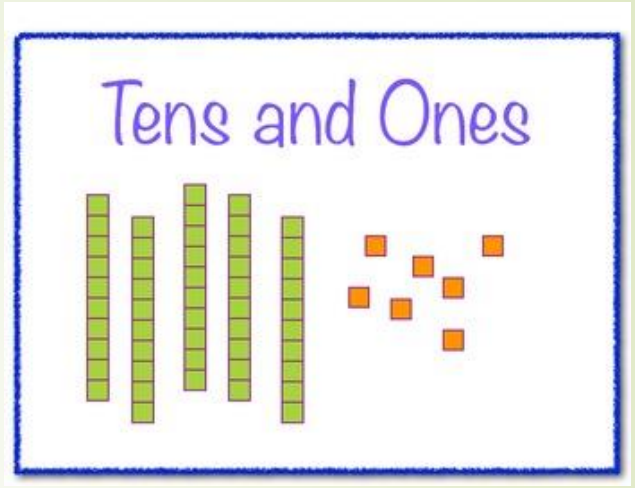
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

- Count to 100
- One more and one less
- Write numbers to 20 as words
- **Partition and combine numbers in tens and ones**



16	17	18	19	20
sixteen	seventeen	eighteen	nineteen	twenty

Place Value in Year Two



Numbers to 100

- Read and write numbers to 100 in numerals and words
- **Partition numbers in different ways**

Have a go yourself – place value

Choose a number card from the pot and create it by either:

- Using the objects that are on the table
- Draw a representation of a number on paper
- Show the number in a part whole model or a bar model.

Addition and Subtraction

- Addition means to **combine** two or more amounts to create a greater **total**

- Subtraction means to **take away** a **smaller value** from a **greater value** to leave a new amount

Key words:

greater than

less than

increase

decrease

total

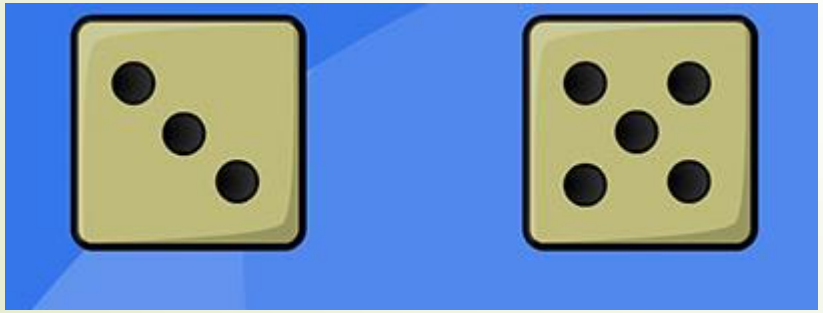
partitioning

exchanging

Addition and Subtraction in EYFS

Numbers up to 20

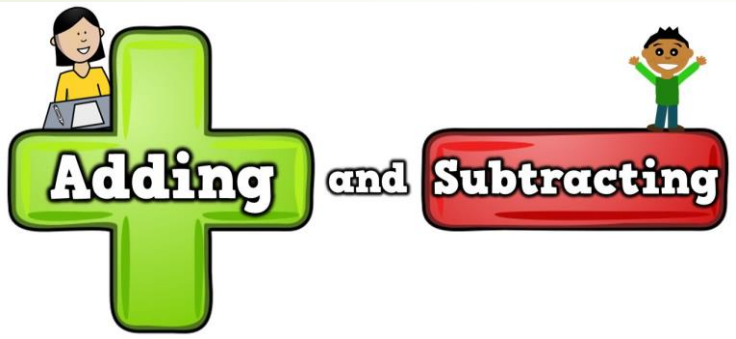
- Find the total amount by combining two groups together
- Add items by counting on
- Subtract items by counting back



Addition and Subtraction in Year One

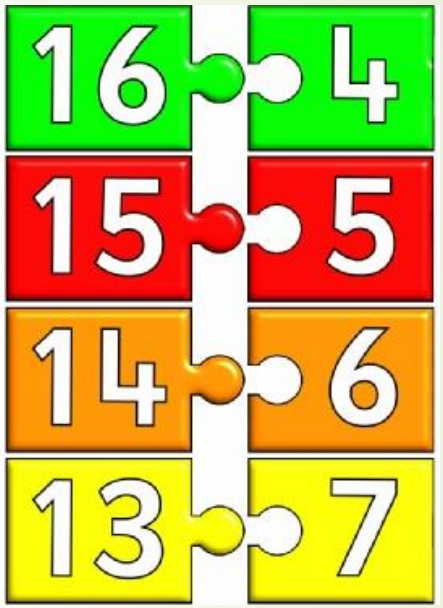
Numbers to 20

- Understand and use addition, subtraction and equal symbols
- Know all numbers facts within 10
- **Add and subtract one and two digit numbers to 20.**



Addition and Subtraction in Year Two

Numbers to 100



- Add 3 one digit numbers
- Calculate bonds to 20
- **Add 2 two digit numbers**
- **Subtract 2 two digit numbers where you may have to regroup**

Have a go yourself – addition and subtraction

- Choose an addition or a problem from the pot or write your own (the answer can't be over 100)
- Use the tens and ones to help you solve the problem. You can choose to use the diennes or to draw the tens and ones yourself
- Remember if you are subtracting and don't have enough ones you must exchange one of your tens for ten ones.

Multiplication and Division

- Multiplication is making a total from combining **equal groups** together.

- Division is separating a larger amount by **sharing** into **equal groups**

Key words:

sharing

groups of

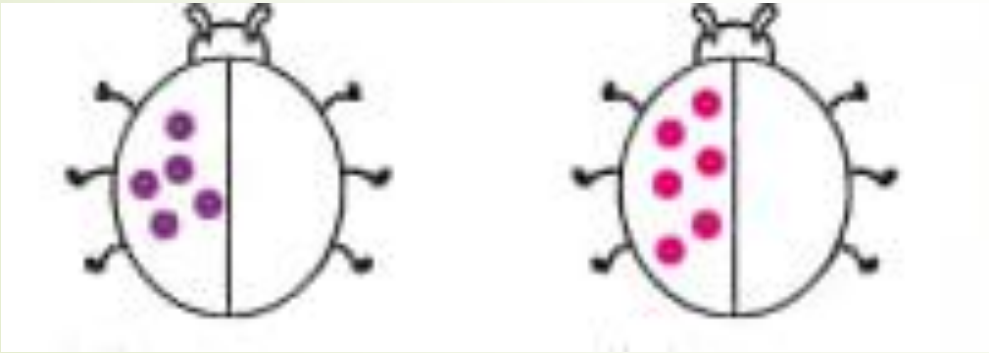
lots of

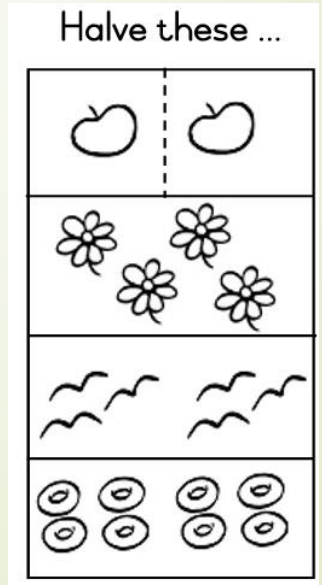
equal groups

Multiplication and Division in EYFS

Numbers to 20

- Start to double and half with objects

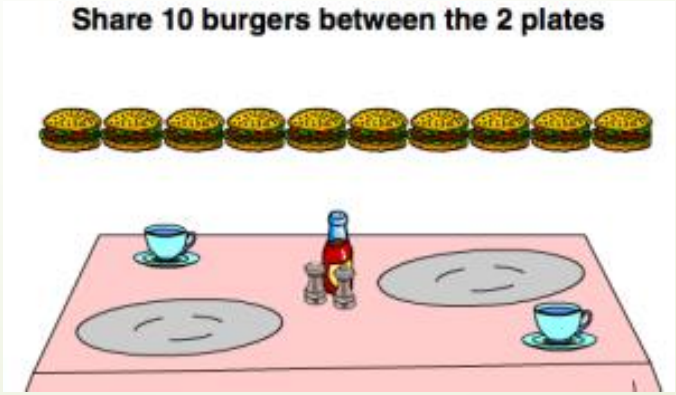


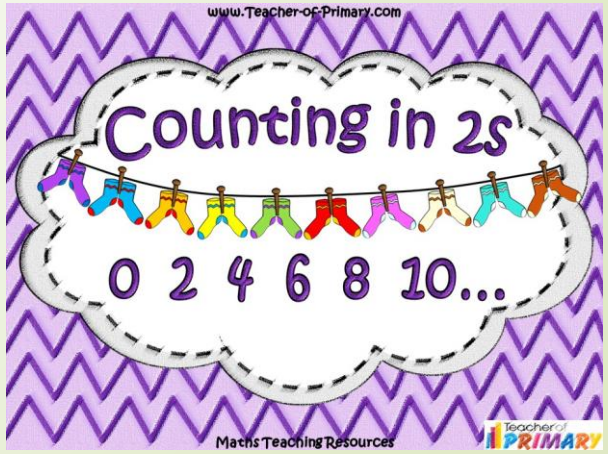


Multiplication and Division in Year One

Numbers to 100

- Count in steps of 2, 5 and 10 forwards and backwards.
- **Solve practical problems that involve grouping**
- **Solve practical problems that involve sharing**

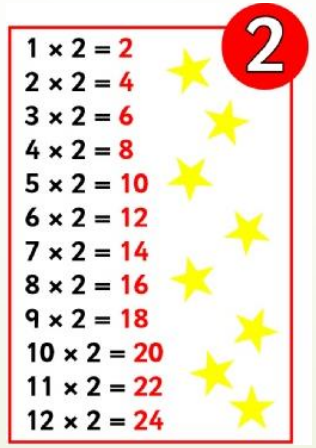




Multiplication and Division in Year Two

Numbers to 100

- Know my 2, 5, 10 and 3 times tables
- **Solve practical problems involving grouping and record using the symbol**
- **Solve practical problems involving sharing and record using the symbol**



Have a go yourself – multiplication and division

- Choose one of the statements from the pot.
- Use the objects in front of you or the paper and jottings to create the multiplication or division.
- Now write a multiplication or division to go with your problem

Remember:

- Groups of means multiplication
- Sharing means division
- The rules

Links and Games

- Hit the button – times tables and number bonds
- Splat square – 100 square
- general number, number bonds and times tables songs – youtube
- topmarks – general maths games
- Calculation policy on school website

Aims of the session

- Look briefly at the maths curriculum
- Discuss key vocabulary for the core maths area
- Look at and try strategies that you can use at home to support your child
- Look at games and websites that you can use at home

Thank you for coming

Oliver Mayhew
KS1 Maths SLE

On each table

- Number sentences + and –
- Number cards
- Sentences times and divide
- Handouts – lots
- lots of tens and ones
- Numicon
- Beadstrings
- Objects/counters
- Paper and pencils
- Bowls for the number sentences
- Bundles of 10 straws