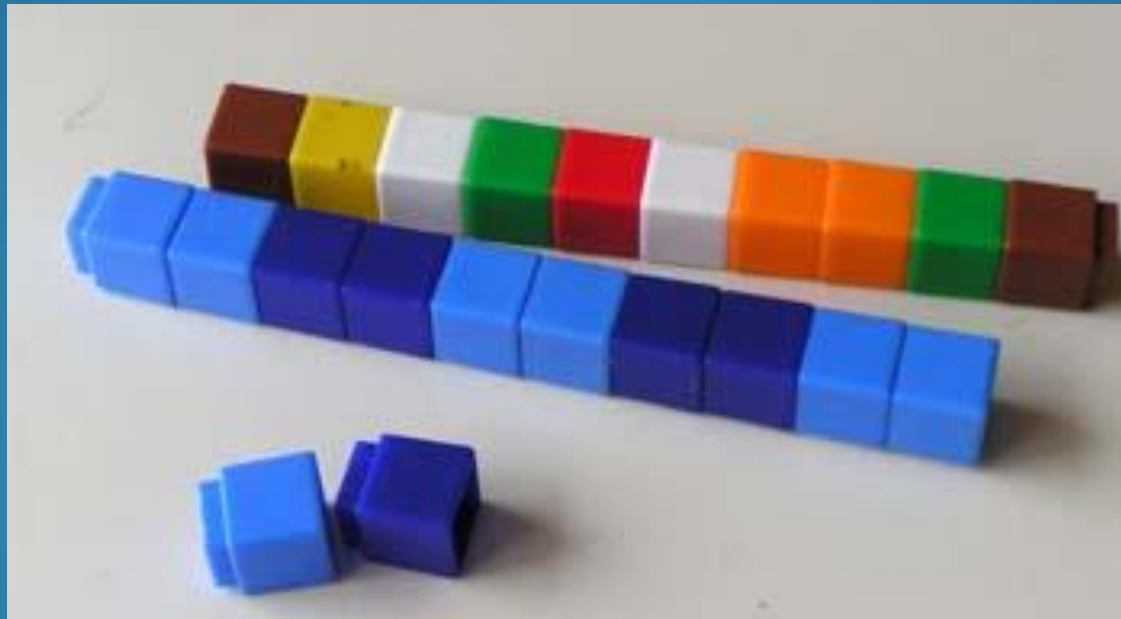


KS1 Math

What we learn and our
methods of teaching



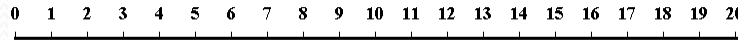
What do we teach in ks1 Maths?

- Number bonds from 10 and 20 (ie $7+3=10$, $18+2= 20$)
- **Basic multiplication (2,5,10)**
- Basic division (2)
- Fractions ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$)
- **Addition and subtraction to 100**
- **Place value (units, tens and hundreds)**
- Time (o'clock, half past, quarter to, quarter past)
- Measurement (weight, length, capacity)
- Money (everyday money- calculating change)
- Problem solving
- Handling data (graphing, tables, sorting data)
- Shape and space

Today we will focus on the red highlighted examples

Resources

- Number line



- Counters

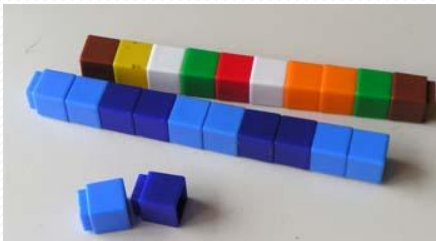


- [Online games](#)

Number square

| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|-----|
| 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 |

- Unifix sticks



Place value cards



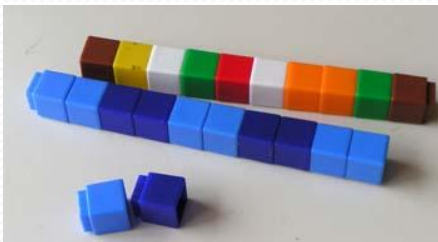
Place Value

- We use place value cards in combination with unifix cubes and 100 squares to recognize values of numbers.

i.e. make the number 245

Step 1: separate the number into its value
2 hundreds, 4 tens and 5 units

Step 2: make that number with either cubes or a value card.



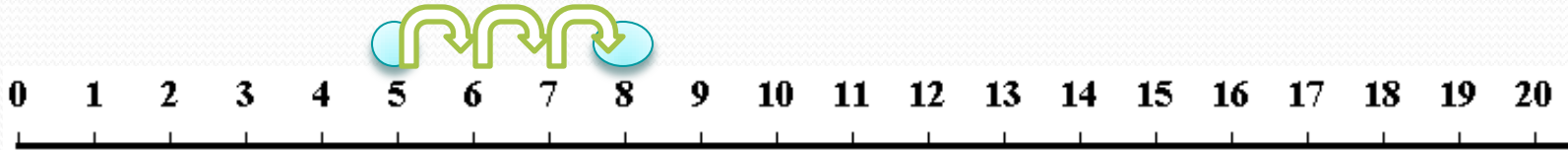
T.U.B Method

- $25 + 33 = 58$
- Step 1: partition numbers (tens $20 + 30$) (units $5+3$)
- Step 2: add up the Tens (**T**) ($20 + 30 = 50$)
- Step 3: add up the Units (**U**) ($5+ 3 = 8$)
- Step 4: add both (**B**) ($50 + 8 = 58$)

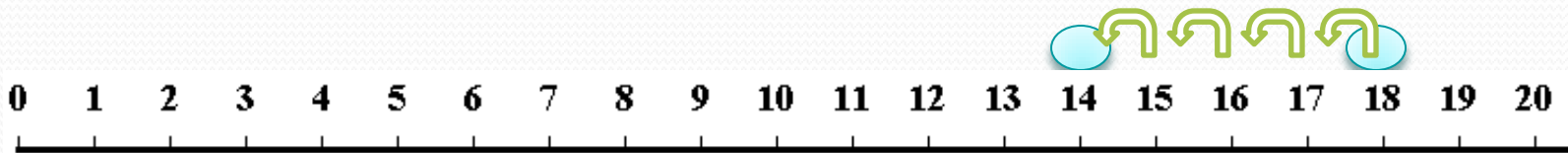
- $55 + 26$ (T $50 + 20 = 70$) (U $5+6 = 11$)
- $70 + 11 =$ (T $70 + 10 = 80$) (U $0+1=1$)
- $80+1=81$
- Or UTB when carrying 1

Using a Number Line

- Adding $5 + 3 = 8$
- Step 1 start on the biggest number and count on in jumps.

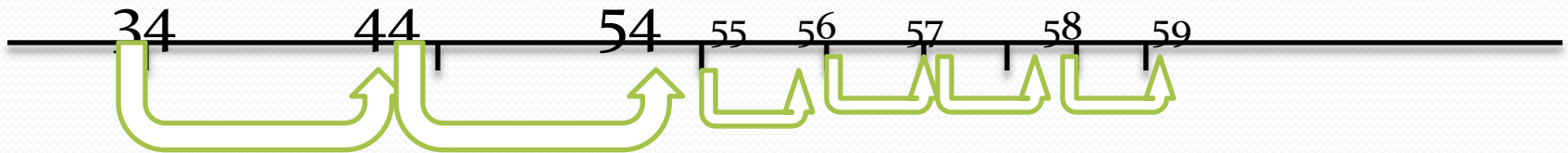


- Subtracting $18 - 4 =$
- Step 1: start on the biggest number and count back in jumps.



Using a blank number line

- $34 + 25 = 59$



Step 1: partition 2nd number (25- 2 tens (20) and 5 units)

Step 2: jump the 10's (2 tens)

Step 3: jump the units (5)

Addition and Subtraction a with number square

- Adding 12

- $54 + 12 = 66$

- Step 1 :Partition the number (one 10, two units) 10 & 2
- Step 2: add on the 10 (down 1)
- Step 3 add on the units (right 2)

- Adding 10 go down 1

- Subtracting 10 up 1

- Adding 1 go right 1

- Subtracting 1 go left 1

| | | | | | | | | | |
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| 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 |

Addition and Subtraction a with number square

Adding 9 :

$$25 + 9 = 34$$

Step 1: find 25 on number square

Step 2: simplify the equation (add 10 -1).

To add 10 simple go down one on the number Grid then then take 1 to make 9 (go left 1 space)

Down 1 left 1

Subtracting 9:

$$25 - 9 = 16$$

Step 1: find 25 on the number grid

Step 2: simplify the equation (take 10 +1)

Step 3: to take ten go up 1 then take 1 by going Right 1.

Up 1 right 1

| | | | | | | | | | |
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| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

Using a number grid for patterns and multiplication

- Colour in the even numbers to recognize odd and even
- Learn the [2, 5 and 10 x table](#)
- [number square](#)
- [Variations for the number square](#)
- Hiding numbers on a [number square](#)

| | | | | | | | | | |
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Multiplication in ks1

- First recognize that multiplication is repeated addition

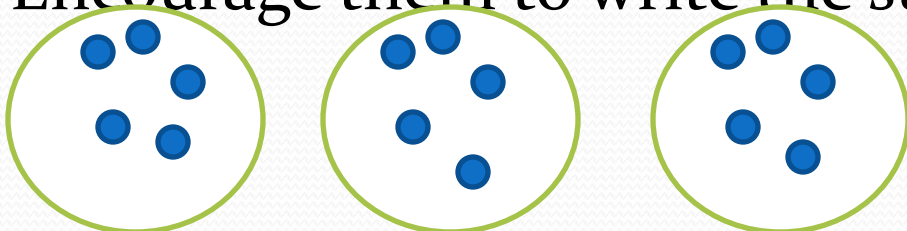
• No of lots how many per group total

• $3 \quad \times \quad 5 \quad = \quad 15$

- Is the same as 2 lots of 5 or $5 + 5 + 5 = 15$

- Use pictorial cues to represent a x sum.

- Encourage them to write the sum:



• $5 + 5 + 5 = 15$

Practical maths

Making maths practical by using real materials. Try some of these at home with your child.

- Using coins



using food

- Using measuring cups



cooking



Online games

Children love games to engage their learning. Try some of these site links.

