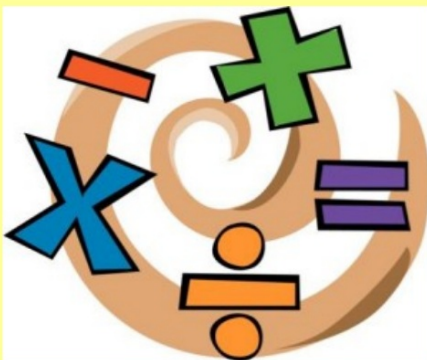


# Welcome to the Year 3 Maths Workshop



### Aims:

- To share ways in which you can help your child at home and the fun you can have with maths;
- To explain some of the methods used in school;

**MATHS IS FUN!**

**Children MUST feel positive about  
maths to be numerate.**

### Ways you can help at home

- Card games and counting games (e.g. Snakes & Ladders, Ludo and any dice game)
- Recognising numbers and sequences when out and about (e.g. house numbers-odds and evens, bus numbers, car number plates etc)
- Recognising shapes (e.g. buildings, windmills, food packaging etc.)
- Helping in the supermarket (e.g. paying and getting change, weighing fruit and vegetables, calculating discounts and better value etc.)

## Ways you can help at home

### Cooking-

- Measuring
- Reading scales with different intervals
- Capacity and weight
- Time
- Fractions

## Ways you can help at home

Using money -

- work out how much they need to pay for things and talk about how much they will have left over
- working out the cost of items in a sale
- imaginary shopping lists e.g. Argos catalogue
- role play

## Partitioning- Addition

$$\begin{array}{r} 43 + 25 = \\ \diagdown \quad | \quad \diagup \quad \diagdown \\ 40 \quad + \quad 20 \quad = \quad 60 \\ 3 \quad + \quad 5 \quad = \quad 8 \\ 60 + 8 = 68 \end{array}$$

## Expanded Column- Addition

$$135 + 241 =$$

$$\begin{array}{r} 100 + 30 + 5 \\ + 200 + 40 + 1 \\ \hline 300 + 70 + 6 \end{array}$$

## Expanded Column

$$368 - 137 =$$

$$\begin{array}{r} 300 + 60 + 8 \\ - 100 + 30 + 7 \\ \hline 200 + 30 + 1 \end{array}$$

## Expanded Column-borrowing/exchangir

$$434 - 273 =$$

$$\begin{array}{r} 300 \\ \cancel{400} + 130 + 4 \\ - 200 + 70 + 3 \\ \hline 100 + 60 + 1 \end{array}$$

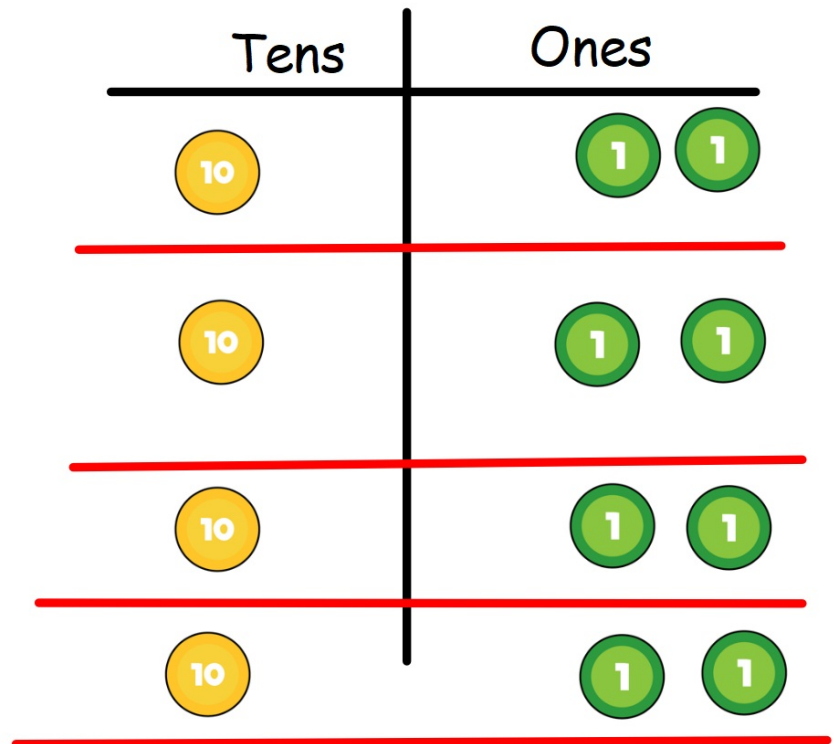
## Multiplication- Grid Method

$$423 \times 4 =$$

| x | 400  | 20 | 3  |               |
|---|------|----|----|---------------|
| 4 | 1600 | 80 | 12 | = 1692        |
|   |      |    |    | <u>= 1692</u> |

# Division

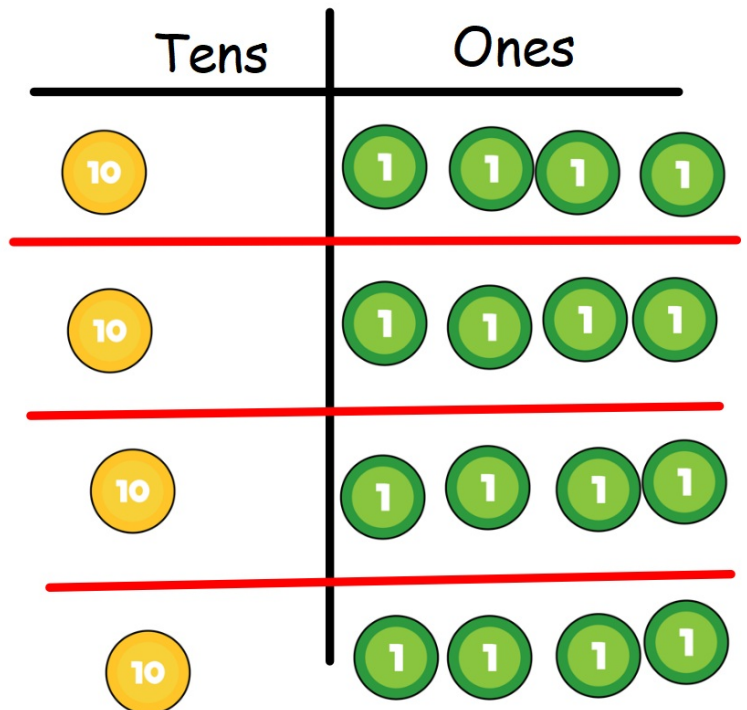
$$48 \div 4 = 12$$



# Division with exchange

$$56 \div 4 = 14$$

exchange 1 ten  
for 10 ones



# Division with exchange and remainders

$$45 \div 4 = 11r1$$

1 one remaining



## Number Magic

- Practising and consolidating written methods
- Differentiated, based on strategies they are currently using.
- Support children to internalise the KIRFs (Key Instant Recall Facts)

## Mental Maths Challenge

- Rapid recall of facts (not relying on fingers)
- Understanding of the inverse-  
 $5 \times 8 = 40$                        $40 \div 5 = 8$
- Every week (Wednesday)





