

# **Maths Workshop for Parents**

**24.10.23**

- **Daily Maths lessons**
- **Additional maths opportunities**
- **Times tables**
- **The four operations using CPA**
- **Year 3 Maths lesson**

# Daily Maths Lessons

- Teaching for Mastery
- White Rose scheme of learning
- Small steps, Progression of skills
- CPA approach (concrete, pictorial, abstract)
- Mathematical vocabulary and stem sentences
- Fluency, reasoning and problem solving
- Depth of understanding
- Partner work

Year 3 | Autumn term | Block 2 – Addition and subtraction

## Small steps

Step 1 Apply number bonds within 10

Step 2 Add and subtract 1s

Step 3 Add and subtract 10s

Step 4 Add and subtract 100s

Step 5 Spot the pattern

Step 6 Add 1s across a 10

Step 7 Add 10s across a 100

Step 8 Subtract 1s across a 10

|             | 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 term | Number<br>Place value<br>FREE TRIAL<br>VIEW     |        | Number<br>Addition and subtraction<br>VIEW  |                             |                               |                           | Number<br>Multiplication and division A<br>VIEW |                    |        |               |         |         |
| Spring term | Number<br>Multiplication and division B<br>VIEW |        | Measurement<br>Length and perimeter<br>VIEW |                             | Number<br>Fractions A<br>VIEW |                           | Measurement<br>Mass and capacity<br>VIEW        |                    |        |               |         |         |
| Summer term | Number<br>Fractions B<br>VIEW                   |        | Measurement<br>Money<br>VIEW                | Measurement<br>Time<br>VIEW |                               | Geometry<br>Shape<br>VIEW |                                                 | Statistics<br>VIEW |        | Consolidation |         |         |

# Additional Maths Opportunities

- Maths fluency sessions – 15 mins, 4 days a week
- Fluid Intervention
- Tutoring

## Homework:

- Arithmetic sheet
- or MyMaths
- TTRS



Year 3  
Week 8 – Day 4

KEY



Try mentally first



Try a written method



$$A. 374 + 400 =$$



$$B. ? \div 9 = 8$$



$$C. 3 \times 4 =$$



$$D. 832 - 159 =$$

Challenge - Write a worded problem to match each question.

# Times Tables



## National Curriculum

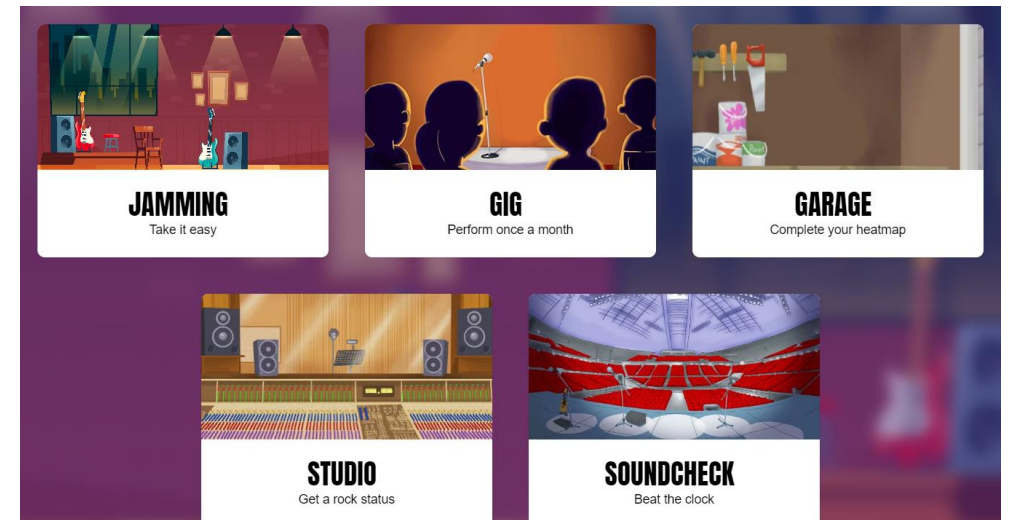
- **Y2: recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables**
- **Y3: recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables (Summer 1 – 6 x table)**
- **Y4: recall multiplication and division facts for multiplication tables up to  $12 \times 12$**
- **Multiplication Tables Check (June Y4); Y5 and 6 maths requires tables knowledge**

## In school:

- **In lessons (Start of each half term explore a new times table); Weekly tests; Fluency sessions (songs, chanting...)**

## At home:

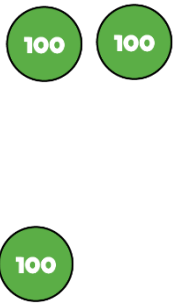
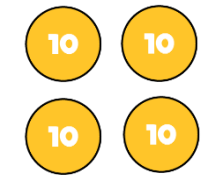
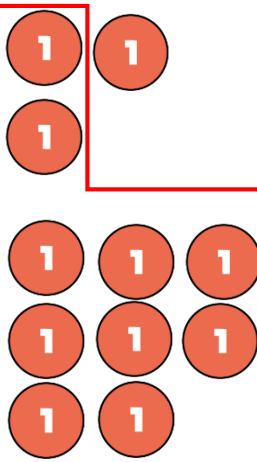
- **TTRS (5 mins/3 times a week initially)**
- **Other – games/online**



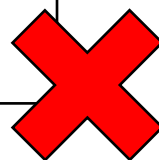
## Addition using the CPA approach

**Mo scores 243 points in a game. Eva scores 108 points in a game.**  
**How many do they score in total?**

351

| Hundreds                                                                          | Tens                                                                               | Ones                                                                                 |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |
| 3                                                                                 | 5                                                                                  | 111                                                                                  |





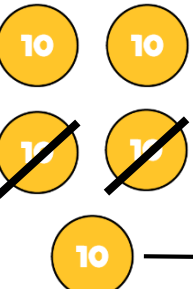
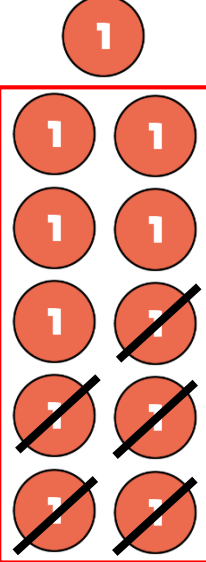
|   |   |   |   |  |
|---|---|---|---|--|
|   |   |   |   |  |
|   | H | T | O |  |
|   | 2 | 4 | 3 |  |
| + | 1 | 0 | 8 |  |
|   | 3 | 5 | 1 |  |
|   |   | 1 |   |  |

✓ **“Exchange”**

× **“Carry”**

# Subtraction using the CPA approach

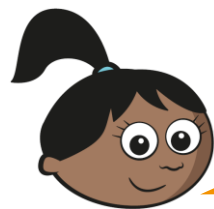
$$451 - 325 = 126$$

| Hundreds                                                                          | Tens                                                                               | Ones                                                                                |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |
| 1                                                                                 | 2                                                                                  | 6                                                                                   |

|   |   |                           |                |  |
|---|---|---------------------------|----------------|--|
|   |   |                           |                |  |
|   | H | T                         | O              |  |
|   | 4 | <del>5</del> <sup>4</sup> | <sup>1</sup> 1 |  |
| — | 3 | 2                         | 5              |  |
|   | 1 | 2                         | 6              |  |
|   |   |                           |                |  |

✓ **“Exchange”**

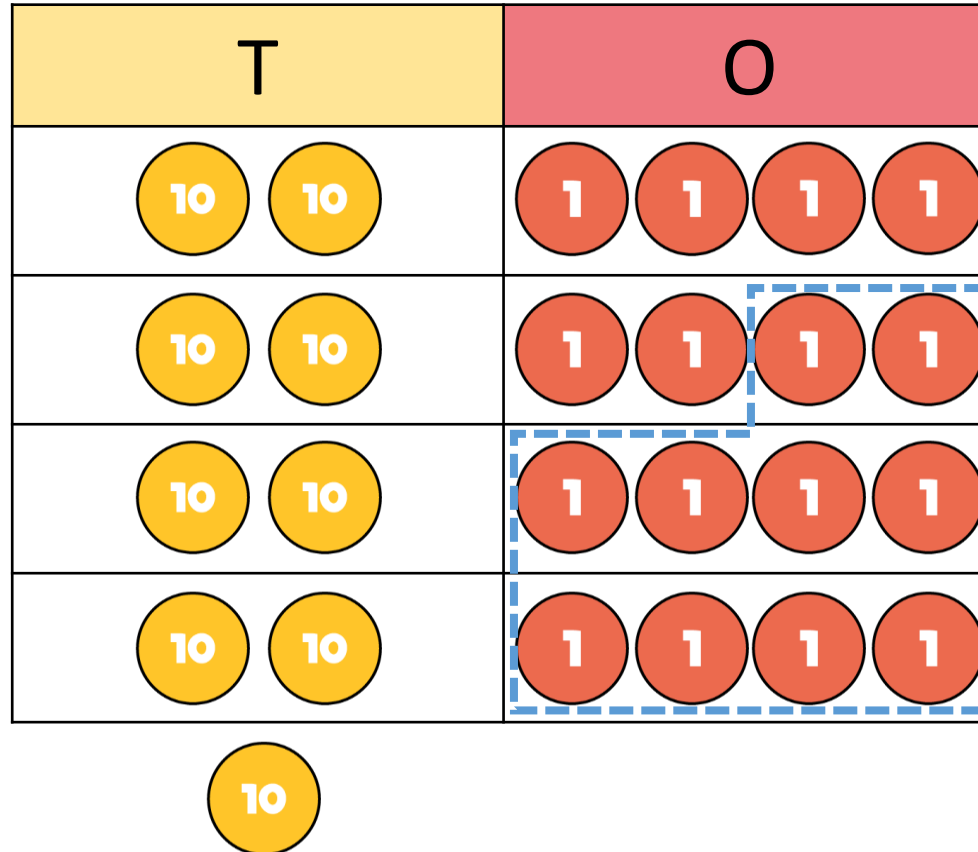
× **“Borrow”**



**I will exchange 1 ten for 10 ones.**

## Multiplication using the CPA approach

$$4 \times 24 = 96$$



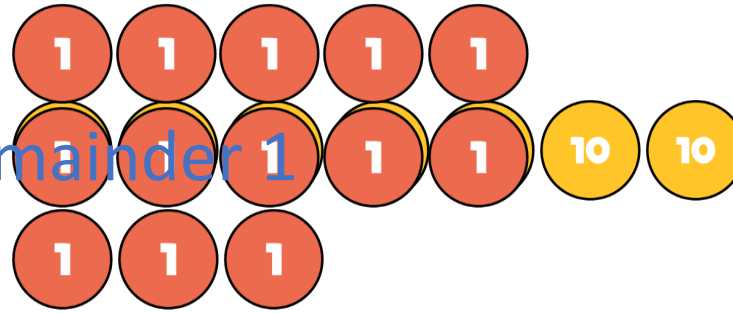
|   |   |   |  |
|---|---|---|--|
|   | T | O |  |
|   | 2 | 4 |  |
| × |   | 4 |  |
|   | 9 | 6 |  |
|   | 1 |   |  |

✓ “Exchange”

× “Carry”

## Division using the CPA approach

$$73 \div 3 = 24 \text{ remainder } 1$$



| Tens | Ones |
|------|------|
|      |      |
|      |      |
|      |      |

**No short  
division in  
Year 3**

✓ **“Sharing”**



# **Year 3 Maths lessons today – To subtract two numbers with an exchange**

**Concrete and pictorial methods**

**QUESTIONS**