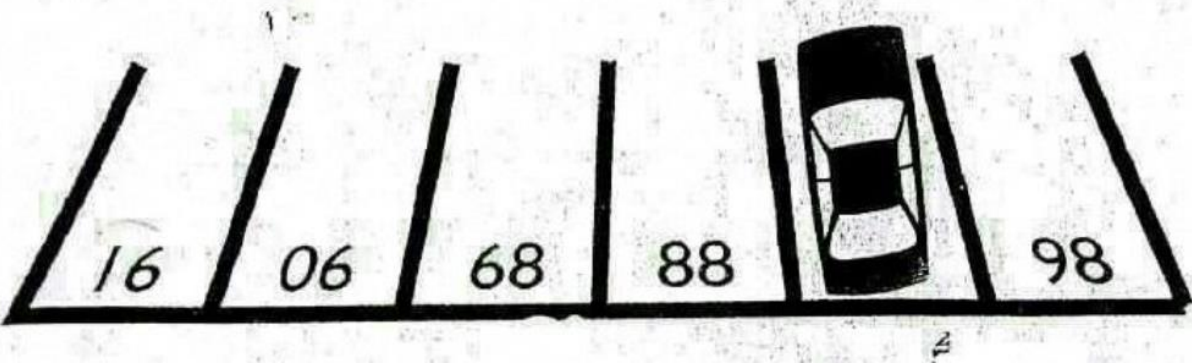


A Lot of Thought

What is the number of the parking space containing the car?



**The Romero
Catholic Academy**
Nurturing the Talent of Tomorrow

Good Shepherd Maths Parent Workshop

Monday 4th November 2019

Mr Kirby

Assistant Vice Principal and Maths Subject Leader

Good Shepherd



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Our Aims for this session



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- Look at the Maths No Problem textbook approach used at Good Shepherd
- Arithmetic and reasoning – explain what the difference is
- Calculation strategies – how we teach 4 operations to our children
- Language of maths and how you can help your child



Maths No Problem is recommended by the DfE for schools on the Teaching for Mastery Programme and is fully aligned with the 2014 English national curriculum. MNP textbooks and workbooks are designed using decades of research to ensure a deep, secure understanding of maths in learners of every attainment level.

Concrete, Pictorial, Abstract (CPA) approach

Based on Jerome Bruner's work, pupils learn new concepts initially using concrete examples, such as counters, then progress to drawing pictorial representations before finally using more abstract symbols, such as the equals sign.



The structure of a Singapore style Maths lesson.

- Exploration
- Structuring
- Journaling

- The ANCHOR Task - where the whole class spends time working on solving one problem

- Guided Practice
- Independent Practice



Can you add to find out how many flowers there are in total?



Arithmetic and mathematical reasoning

Arithmetic

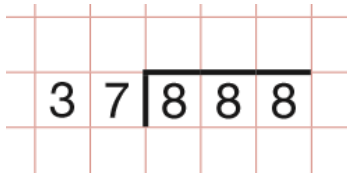
No context. Number and procedure focused.

$$18 - 6 = \boxed{} \quad 5 + 32 = \boxed{}$$

$$101 \times 1,000 =$$

$$602 - \boxed{} = 594$$

$$\frac{1}{5} + \frac{3}{4} =$$

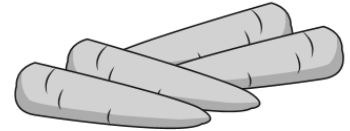


Reasoning

Problems in context. Multiple steps.
Requires a deeper level of understanding
than just rote learning of procedures.



potatoes
£1.50 per kg



carrots
£1.80 per kg

Jack buys $1\frac{1}{2}$ kg of potatoes and $\frac{1}{2}$ kg of carrots.

How much **change** does he get from £5?

Calculation routeway at Good Shepherd



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- Number bond diagrams
- Bar models
- Written calculations
- Number lines



$395 \div 3 =$

$131 \text{ r}2$

$3 \overline{)395}$

$3.21 - 1.8 =$

$\begin{array}{r} 3.21 \\ - 1.80 \\ \hline 1.41 \end{array}$

77

$18 \quad 35 \quad ?$

$\begin{array}{r} 18 \\ + 35 \\ \hline 53 \end{array}$

$\begin{array}{r} 77 \\ - 53 \\ \hline 24 \end{array}$



'Ones' not units



quotient

divisor) dividend

We are a multi-academy company comprised of the following individual schools/academies



**Corpus Christi
Catholic Primary School**

Walking in Christ's footsteps, opening hearts and minds



**Good Shepherd
Catholic Primary School**

One Fold, One Family, Walking with Christ



**Sacred Heart
Catholic Primary School**

Pray, Reflect, Learn and Grow to Mirror the Love of Jesus



**Ss Peter & Paul
Catholic Primary School**

Learning and loving on our journey with Jesus



**St Gregory's
Catholic Primary School**

Learning and Growing in the Service of God



**St John Fisher
Catholic Primary School**

Through Christ, we live, love and learn in our caring community



**St Patrick's
Catholic Primary School**

With Jesus we love, grow and succeed



**Cardinal Wiseman
Catholic School**

Omnia pro Christo



**Blue Sky
Teaching School Alliance**

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Nurturing the Talent of Tomorrow

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