Strategies to support calculation in Year One and Year Two

Calculation

- -Addition: add, plus, sum, total, more
- •Subtraction: subtract, minus, take-away, less
- •Multiplication: multiply, times, lots of
- **Division:** divide, share, group

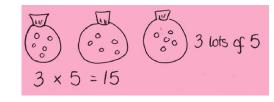


The underpinnings of maths

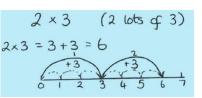
Concrete



Pictorial



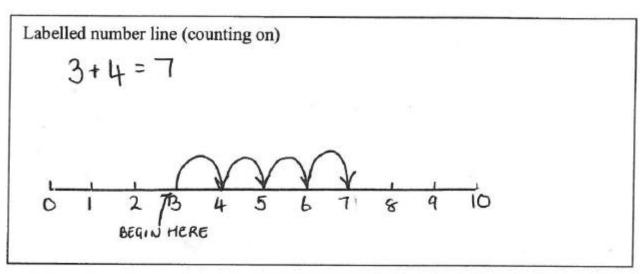
Abstract









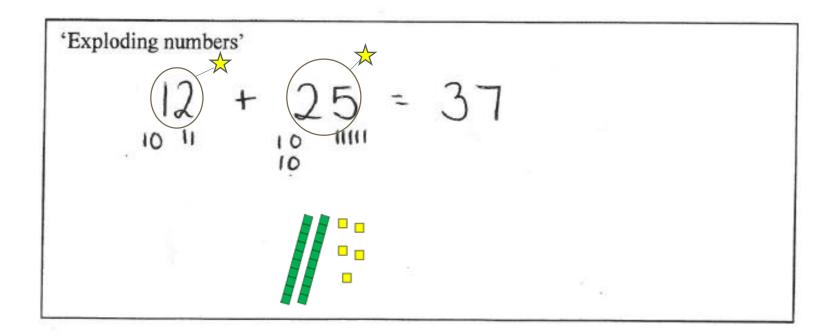


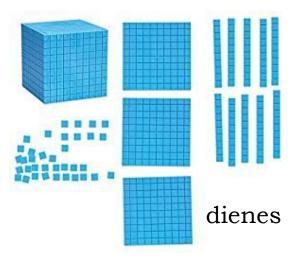














Partitioning:
splitting the
tens and
units to
calculate

...towards the end of the year

Partitioning
$$12 + 25 = 37$$

$$10^{2} = 20^{6}$$

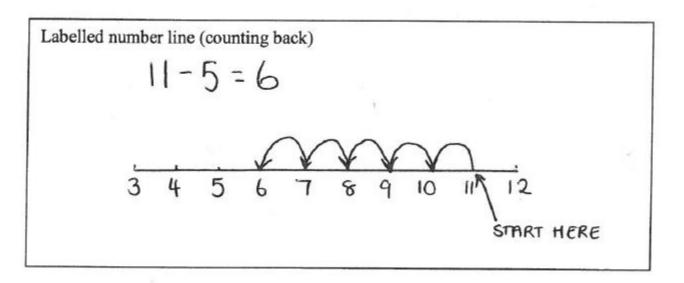
$$2 + 5 = 7$$

$$10 + 20 = 30$$



mental methods



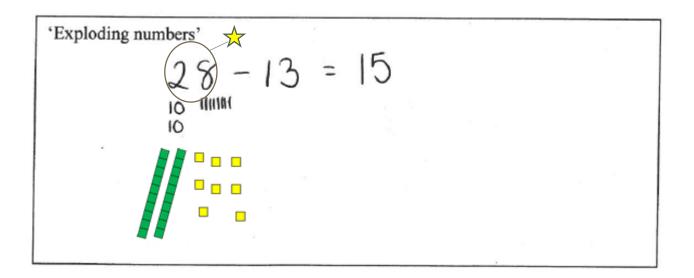


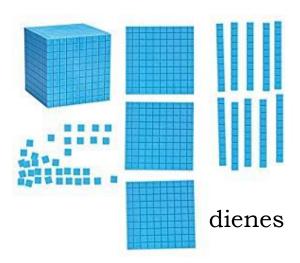














Partitioning

Column (no exchanging)

...towards the end of the year



mental methods



Multiplication



Repeated addition

$$3 \times 4 = is the same as 4 + 4 + 4 =$$









Multiplication - Arrays

Hip Hip Array!

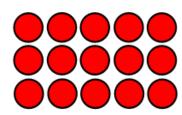
Concrete: $2 \times 3 =$

 $3 \times 2 =$



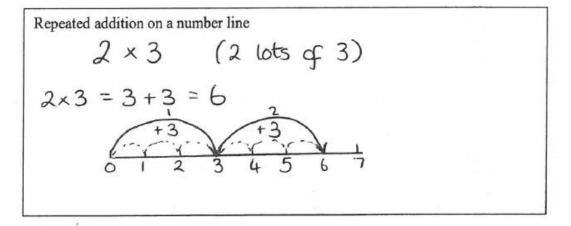
Pictorial: $3 \times 5 =$

 $5 \times 3 =$

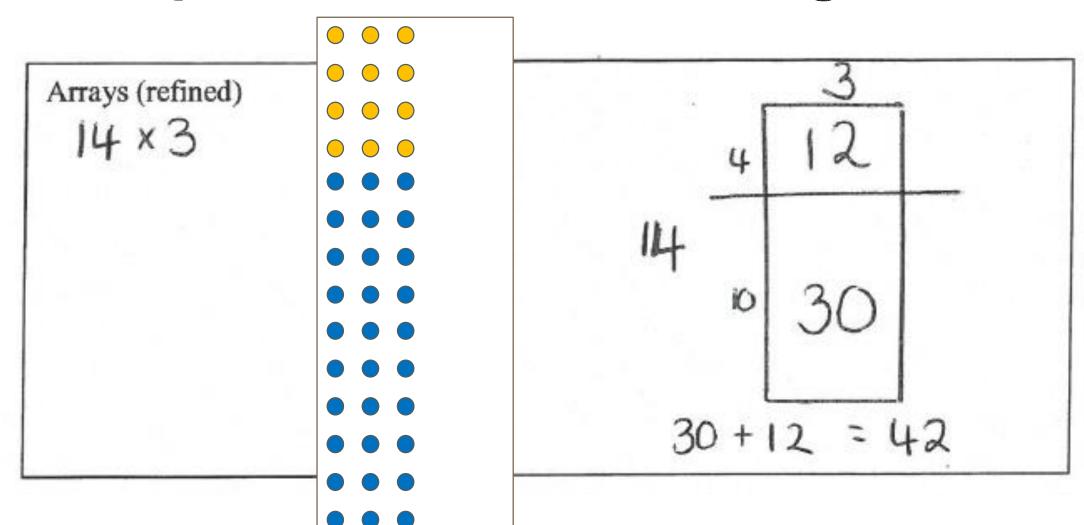




Multiplication - Pictorial and Abstract



Multiplication - Partitioning

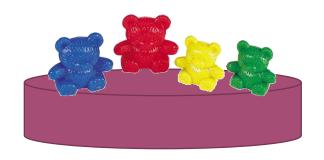


Multiplication

mental methods



Division

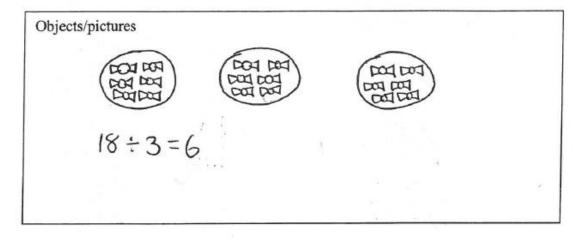


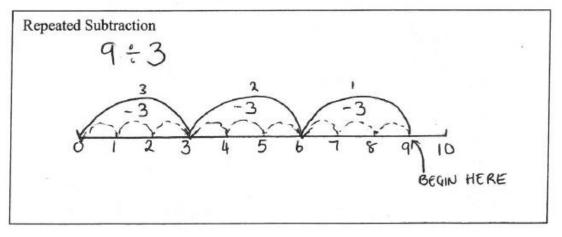






Division - Pictorial and Abstract







Division

The relationship between multiplication and division



Calculation Policy

- Take a copy
- This presentation will go on the website
- •We will collect your child from class to come and have a go at the challenges