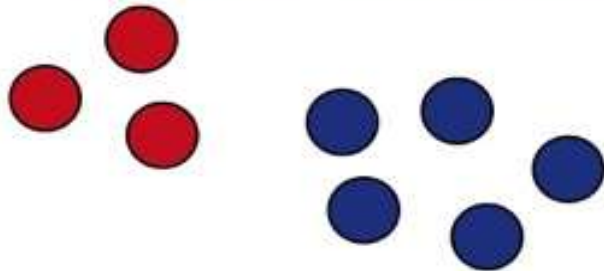


Welcome to our Written Calculation afternoon



The Policy

A1: Objects & Pictures



"If I have 3 and then 5 more, how many altogether? Answer: 8"

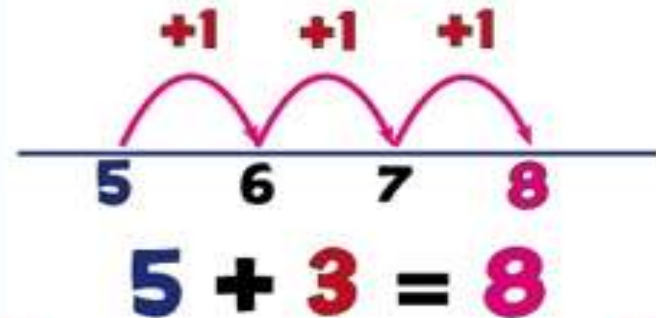


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A2: Counting On



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A4b: Partitioning

$$86 + 48 = 134$$

$$80 + 40 = 120$$

$$6 + 8 = 14$$

$$\underline{134}$$



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A7j: Column Addition With Decimals

$$73.4 + 5.67 = 79.07$$

$$\begin{array}{r} 10 \quad 1 \quad \frac{1}{10} \quad \frac{1}{100} \\ 73.4 \\ + 5.67 \\ \hline 79.07 \\ 1 \end{array}$$



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Alternative methods

S4x: Counting On

+5



78 **83**

83 - 78 = 5

"How many more is 83 than 78? What is the difference?"

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M5: Grid Method
Short Multiplication

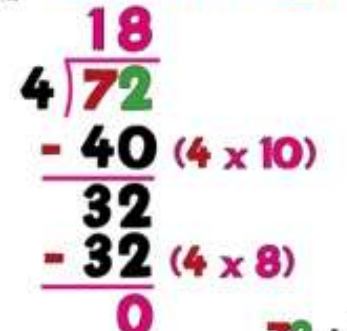
15 x 5 = 75

x	10	5
5	50	25

50 + 25 = 75

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(D11: Chunking)
Additional



18

4 **72**

- 40 (4 x 10)

32

- 32 (4 x 8)

0

72 ÷ 4 = 18

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Important to remember:

- Calculations are still introduced using practical methods.



Small steps

Subtraction

Step 5

I can take away numbers of objects to 10

Step 4

I take away the right amount and count how many are left

Step 3

I take away the right amount

Step 2

I know to take some away, then count how many are left

Step 1

I know when to take some away

Step 10

I can take 1 from a number to 20

Step 9

I can solve subtraction on a number line

Step 8

I can solve a subtraction number sentence

Step 7

I can arrange a subtraction number sentence

Step 6

I can read a subtraction number sentence

More steps...

Subtraction

-
- Step 15** I can take a multiple of 10 from a multiple of 10
 - Step 14** I can take 10 from a $2d$ number
 - Step 13** I can take 10 from a multiple of 10
 - Step 12** I can take a $1d$ number from a number to 20
 - Step 11** I can take 2 or 3 from a number to 20

-
- Step 20** I can spot the next multiple of 10
 - Step 19** I can solve any $3d - 1d$
 - Step 18** I can solve any $2d - 1d$
 - Step 17** I can solve $2d - 1d$
 - Step 16** I can take a $1d$ number from a multiple of 10

Number facts

- What comes before these calculations?

Number, number, number!

- By end of year 4, children should know all their times tables.
- All calculations are very difficult without their number facts.

This afternoon:

- Feel free to walk around the hall, asking questions and watching the children work out calculations.
- Practical equipment table- look at some of the equipment we might use.
- Bear in mind, many of the children haven't been taught calculations yet this year...

Photos.....

