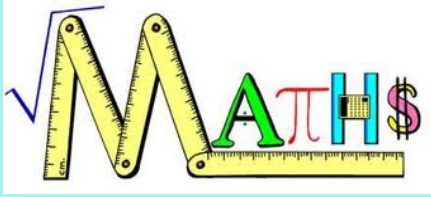


Welcome to our workshop on calculation strategies.



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Written Calculations

- For written calculations it is essential that there is a progression which culminates in one method.
- The individual steps within the progression are important in scaffolding your children's understanding and should not be rushed through.
- Practical equipment, models and images are crucial in supporting your children's understanding.

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What methods would you use to calculate these?

$$26 \times 4 =$$

$$52 \div 4 =$$

Feel free to discuss and share methods!

$$227 + 418 =$$

$$476 - 239 =$$

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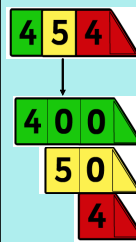
What we mean by partitioning

Have a go!

454

756

2501



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Addition

$$327 + 125 =$$



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$$2327 + 1245 =$$



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Now it's your turn, maybe try a method you are unfamiliar with.

329 + 234 =

1528 + 1411 =

4135 + 863 =

192 + 423 =

2310 + 1289 =

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Subtraction ←

643 - 215 =

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2367 - 1252 =

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2352 - 1238 =

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2352 - 1238 =

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Now it's your turn, maybe try the expanded method if you typically use the compact method!

364 - 182 =

495 - 247 =

2456 - 1239 =

4368 - 2174 =

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£ 2 0 - £ 2 . 6 2 →

Multiplication
3 8 x 7

x		

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2 5 4 x 6

x			

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2 5 4 x 6

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Times Tables

Children need to be fluent in all times tables up to 12x12 in Year 4.

What does fluent mean?

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Now it's your turn! Try using the grid method for one question and expanded multiplication for another.

43 x 4 =

352 x 6 =

27 x 8 =

219 x 3 =

164 x 7 =

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Numbers march to the left!

Thousands	Hundreds	Tens	Ones
		● ●	● ● ● ●

100 times the size 100 times the size

$24 \times 100 = 2,400$

2,400 is 100 times the size of 24

Remember when x 10
We NEVER add a 0

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Numbers march to the left!

$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$	$\frac{1}{10000}$
■	■	■	■

Digits move
The decimal point doesn't move!

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Division

$42 \div 3 =$

$44 \div 3 =$

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$72 \div 3 =$

←

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$72 \div 3 =$

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$86 \div 3 =$

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Now it's your turn. Which layout will you use to chunk?

$39 \div 3 =$

$156 \div 4 =$

$82 \div 6 =$

$148 \div 7 =$

$96 \div 8 =$

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Vocabulary

	Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry (shape/position and direction)	Statistics	Algebra	Ratio and Proportion
Year 4	numbers one to ten thousand written and beyond spoken negative Roman numeral decimal		factor distributive law	equivalence hundredths	area digital (time)	acute obtuse isosceles equilateral scalene parallelogram rhombus trapezium coordinate quadrant axes	time graph variable		

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