Welcome to our workshop on calculation strategies.

Nov 29-12:06 AM

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.

Nov 29-12:06 AM

What methods would you use to calculate these?

26 x 4 =

52 ÷ 4 =

Feel free to discuss and share methods!

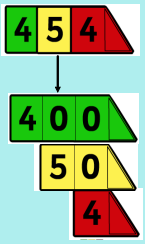
227 + 418 =

476 - 239 =

Nov 29-12:06 AM

What we mean by partitioning

454



Have a go!

756

2501

Nov 29-12:06 AM

Addition

3 2 7 + 1 2 5 =

Nov 29-12:06 AM

2 3 2 7 + 1 2 4 5 =

Nov 29-12:06 AM

2 3 2 7 + 1 2 4 5 =

Nov 29-12:06 AM

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

329 + 234 =

192 + 423 =

1528 + 1411 =

2310 + 1289 =

4135 + 863 =

Nov 29-12:06 AM

Subtraction

6 4 3 - 2 1 5 =

Nov 29-12:06 AM

2 3 6 7 - 1 2 5 2 =

Nov 29-12:06 AM

2 3 5 2 - 1 2 3 8 =

Nov 29-12:06 AM

2 3 5 2 - 1 2 3 8 =

Nov 29-12:06 AM

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

364 - 182 =

495 - 247 =

4368 - 2174 =

2456 - 1239 =

Nov 29-12:06 AM

£20 - £2.62

Nov 29-12:06 AM

Multiplication

38 x 7

x

Nov 29-12:06 AM

Times Tables

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

What does fluent mean?

MATHSFRAME.CO.UK

Topmarks

Home › Maths Games › Hit the Button

Hit the Button

254 x 6

x

Nov 29-12:06 AM

254 x 6

Nov 29-12:06 AM

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

43 x 4 =

352 x 6 =

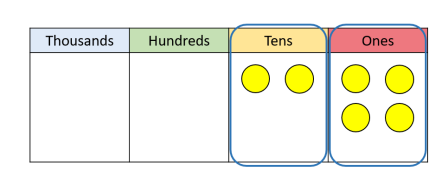
27 x 8 =

219 x 3 =

164 x 7 =

Nov 29-12:06 AM

Numbers march to the left!



100 times the size 100 times the size

24 × 100 = 2,400

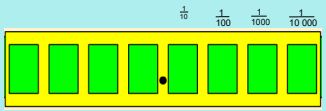
2,400 is 100 times the size of 24

~~Remember when x 10~~

We NEVER add a 0

Nov 29-12:06 AM

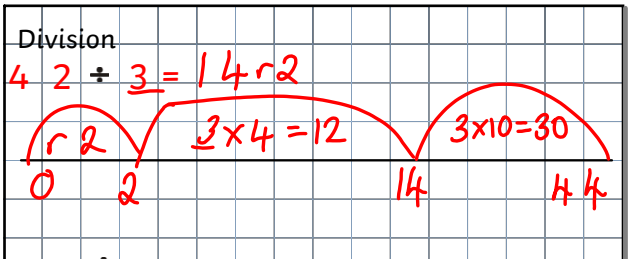
Numbers march to the left!



Digits move
The decimal point doesn't move!

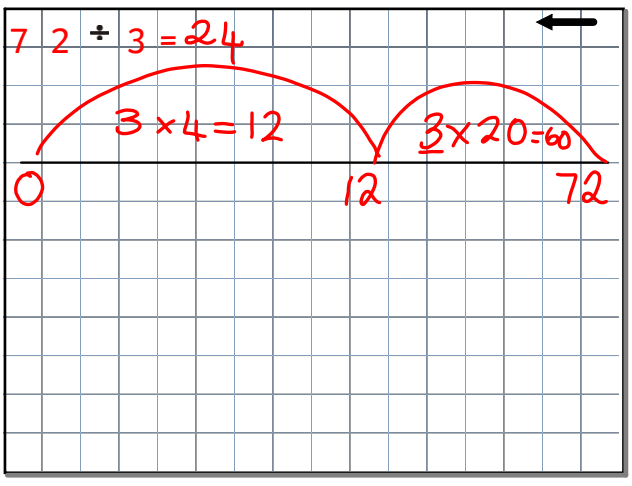
Nov 29-12:06 AM

Division



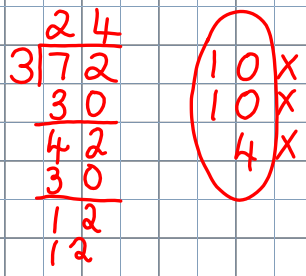
44 ÷ 3 =

Nov 29-12:06 AM

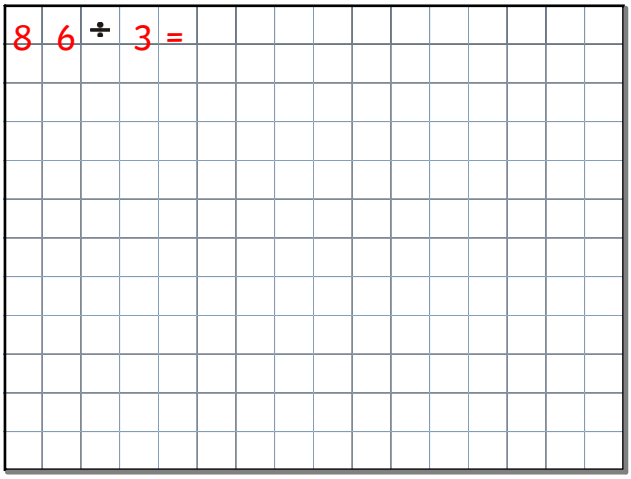


Nov 29-12:06 AM

72 ÷ 3 =



Nov 29-12:06 AM



Nov 29-12:06 AM

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

39 ÷3 =

156 ÷4 =

82 ÷ 6 =

148 ÷7 =

96 ÷ 8 =

Nov 29-12:06 AM

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		

Nov 29-12:06 AM