Parent Education Multiplication and Division Strategies Year 3 - Year 6

Help your child become a flexible problem solver!

- Vocabulary
- Strategy Toolbox
- Multiplication
 - The Standard Algorithm
 - The Area Model
 - The Lattice Method
- Division
 - Short Division, Line and Dot Strategy

Agenda

- Division Lattice Method
- Division Box Method
- Strategy Toolbox Reflection
- Support Materials and Resources
- Questions
- Feedback
- Sandpit Time (Time permitting)

Vocabulary

It is critical for students to understand and use maths terminology in daily maths lessons. Maths
has a language of its own. Sometimes it uses symbols and sometimes the written word, but there is no denying that Maths is a language.

<u>Maths terminology plays a critical part</u> <u>in understanding maths concepts.</u>



Strategy Toolbox



A student with strong number sense, will learn to select the best <u>TOOL</u>, or the most efficient strategy, from the <u>BOX</u> to solve a problem.

What works for one student may be very different to what works for another. <u>Everyone</u> has their own personal **TOOL BOX**!

Multiplication

The Standard Algorithm

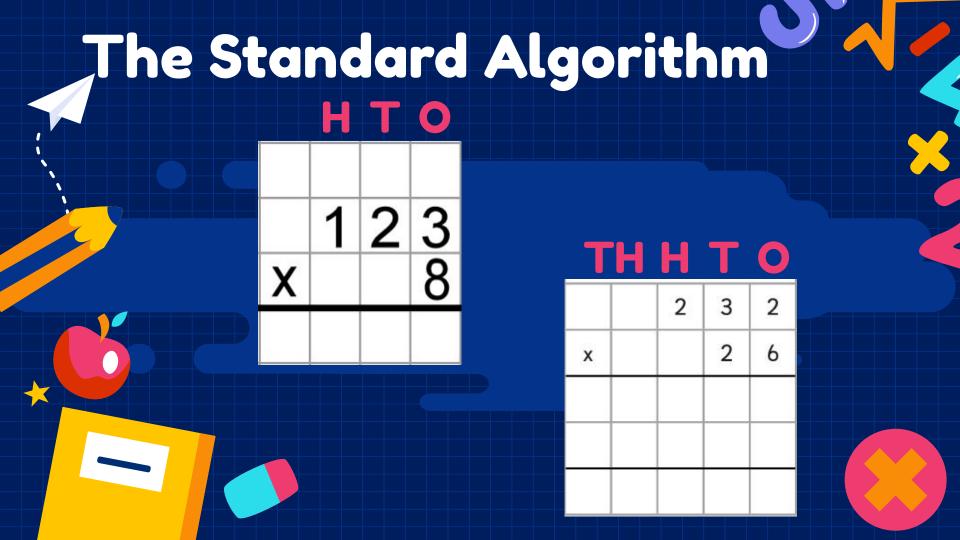
The Area Model

The Lattice Method

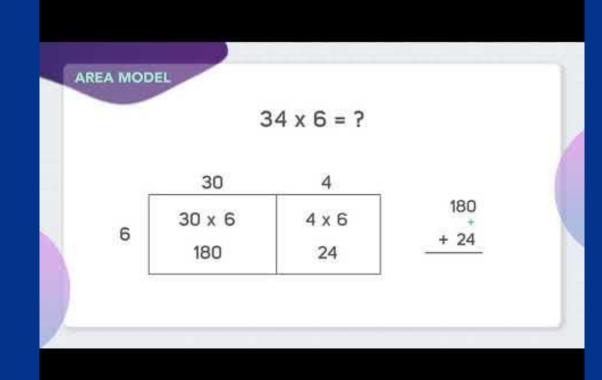
Vou Do Strategy Toolbox

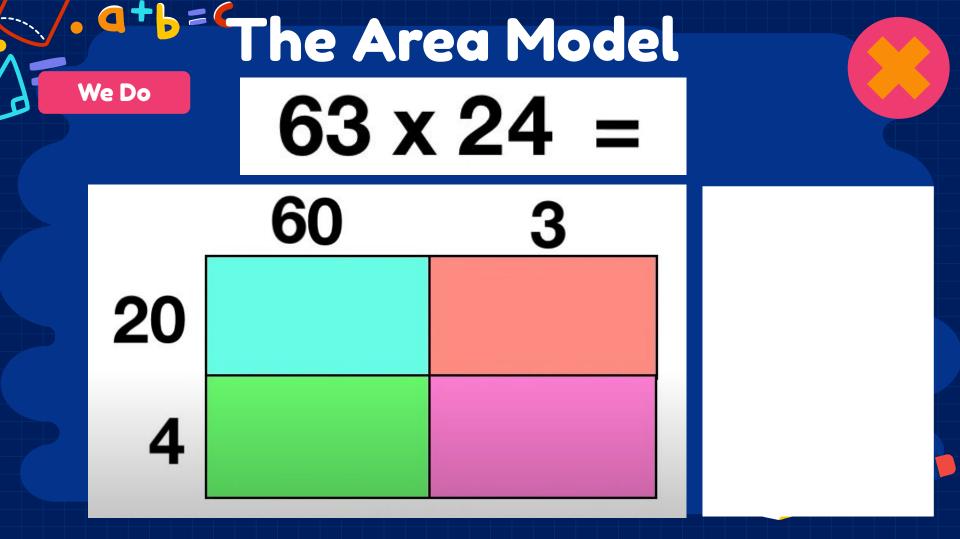
Can you solve 29 x 5 =? Can you explain how you solved it to someone else?

 $29 \times 5 =$

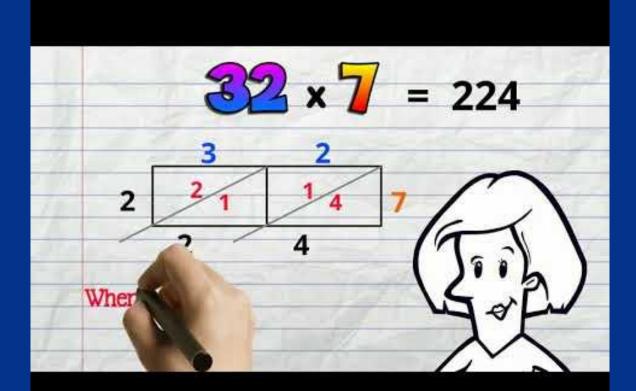


The Area Model



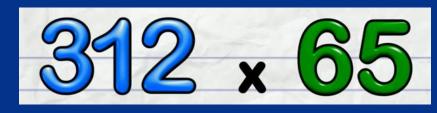


The Lattice Method

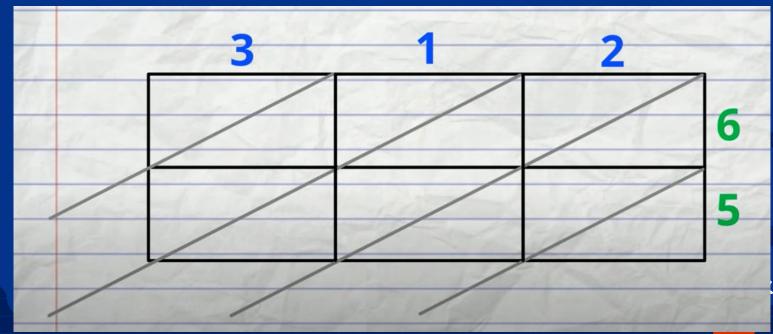


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The Lattice Method



We Do



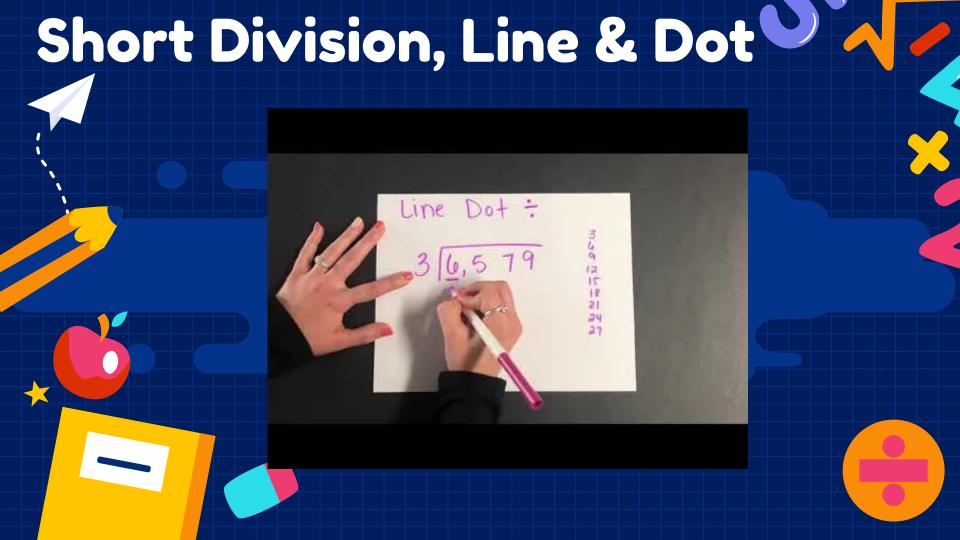
X

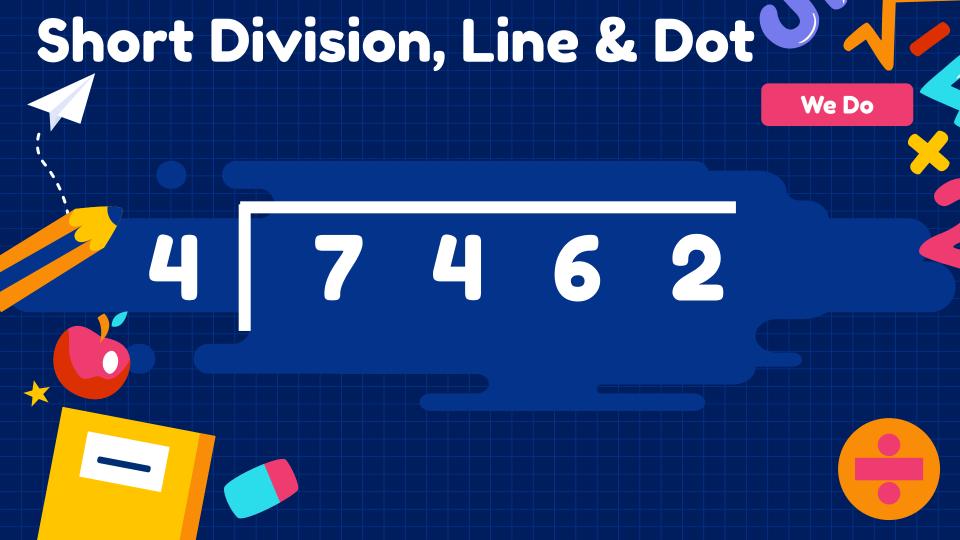
Division

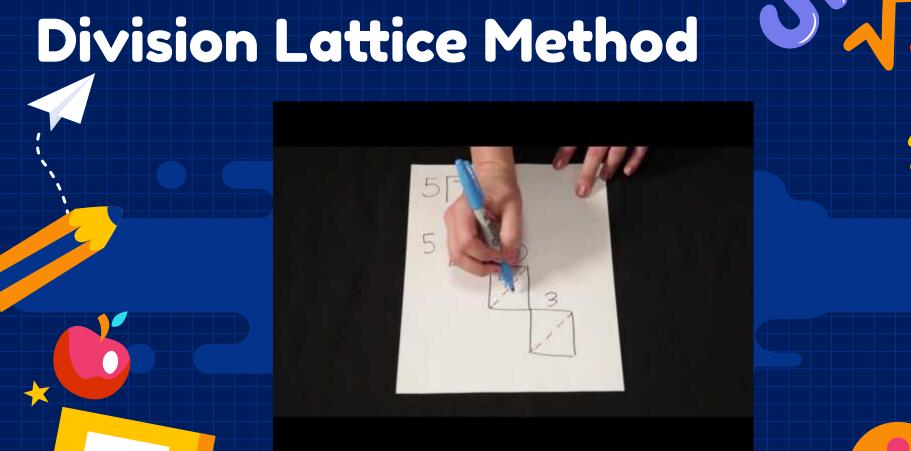
Short Division, Line and Dot Strategy

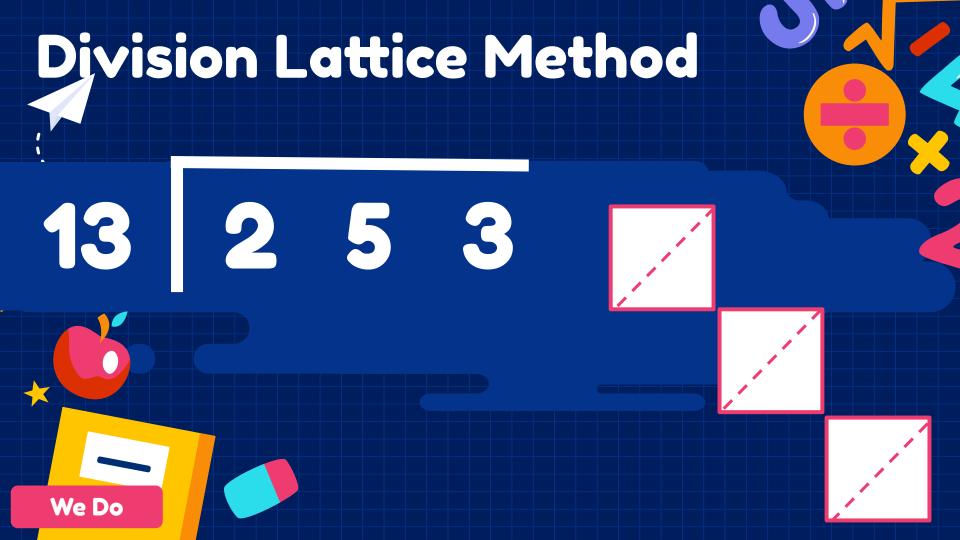
Division Lattice Method

Division Box Method





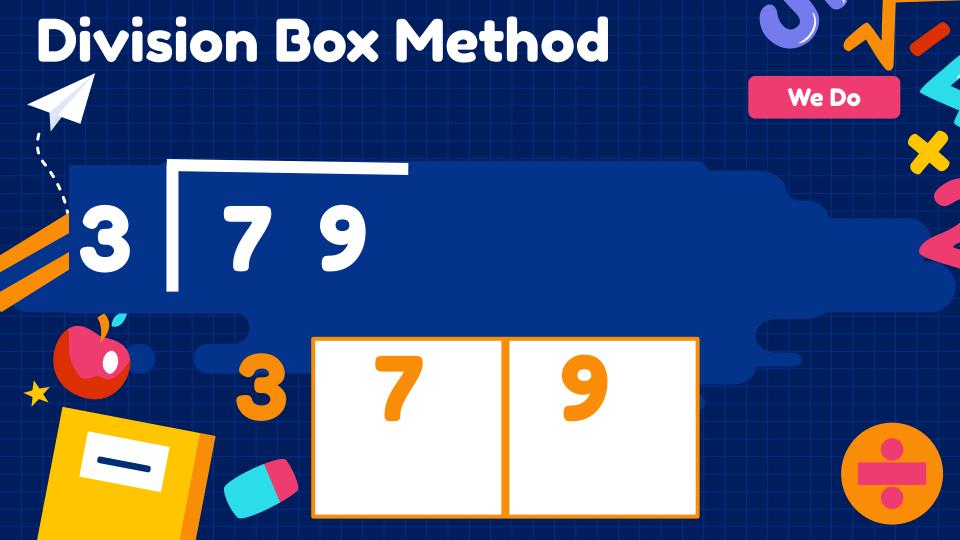




Division Box Method

×0=0 x1=4 4×2=8 4×3=12 4 × 4=16 4x5=20 4x6=24 4×7=28 4×8=32

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Strategy Toolbox



Did you discover something new today?
What strategies worked best for you?
Can you explain to someone else why that strategy appealed to you best?

Reflection

Support Materials and Resources

Enablers



If a child is struggling to solve problems due to their knowledge of fast facts, provide them with the facts. Explore the Multiverse to build upon multiplication and division fact fluency

Mathletics

@Home page of the website is a great resource for families.

MPPS Website

Generate problems to solve using the playing cards or dice.





Maths Showbag