

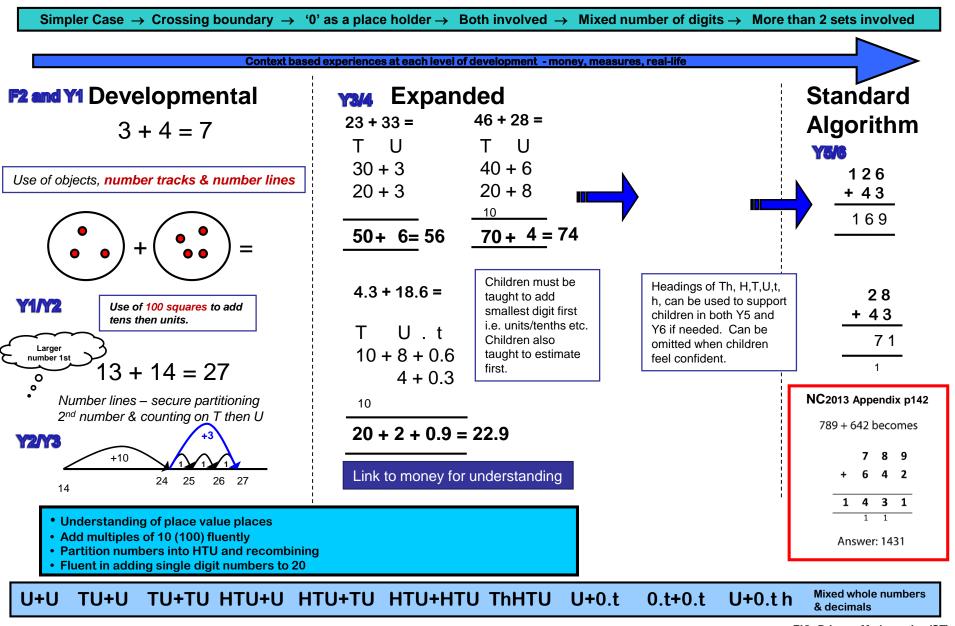
NB. Opportunities for children to meet these 5 core skills should be integrated. Children <u>DO NOT</u> have to be able to recite ALL numbers before they move to calculation. For example, if they are able to recite numbers to 3 then <u>they can</u> 1:1, compare, add and subtract up to 3.

🐡 WIRRAL

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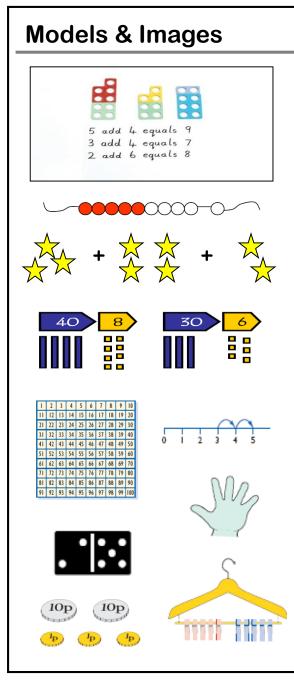
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Addition is commutative. Addition of positive numbers will give a larger answer than the start number as you are adding to the set.



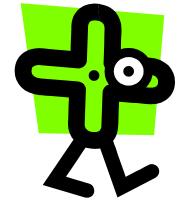
EIO: Primary Mathematics (ST)

- Estimating first to see if their answer 'makes sense'
- Setting out when working in columns confusion over the place value
- · Confusion of 'teen' and 'ty'
- Using in number line count start number so calculation is out by 1



Linked Vocabulary

Add More **Sum** Total Make Greater Plus Addition Increase



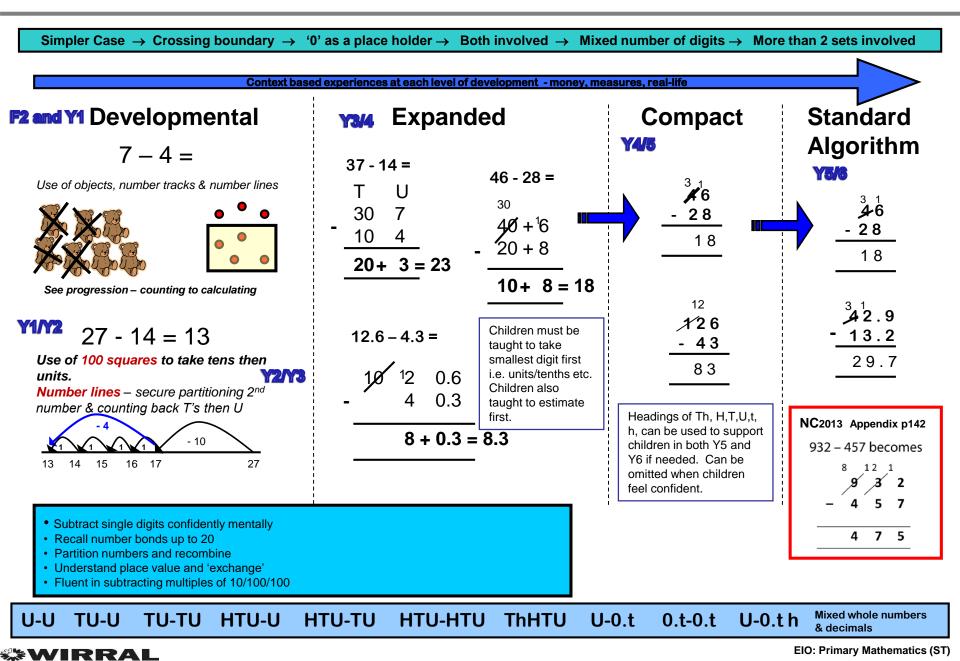
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EIO: Primary Mathematics (ST)

Progression in Subtraction (removal from set, decomposition)

• Can be removal from set or finding the difference

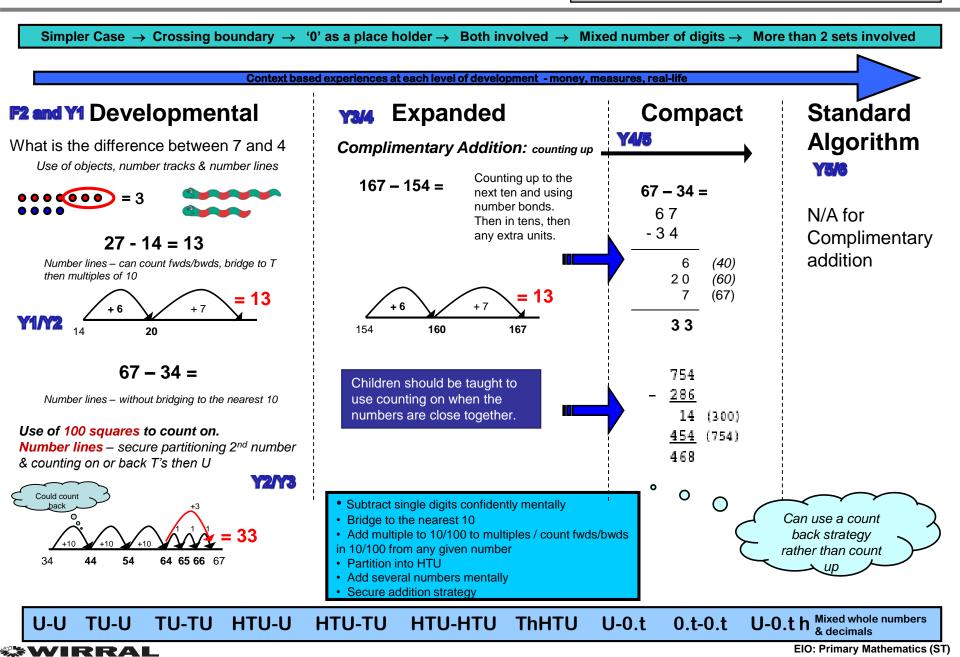
• It is NOT commutative



• Can be removal from set or finding the difference

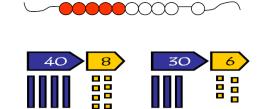
Can count on or back to find the difference

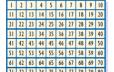
• Removal from set is not commutative



- Estimating first to see if their answer 'makes sense'
- Setting out when working in columns confusion over the place value
- · Confusion of 'teen' and 'ty'
- Using in number line count start number so calculation is out by 1
- Misunderstanding regarding place value and concept of exchanging T for ones, H for Tens etc
- Lack of understanding that when subtracting from a number that the answer will be smaller than start number as removing from it
- Children switch the digits around to be able to 'do' the calculation (believe it is commutative as with +/x)

Models & Images



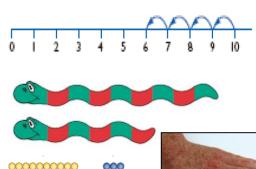


81 82 83 84 85 86 87 88 89 9

91 92 93 94 95 96 97 98 99

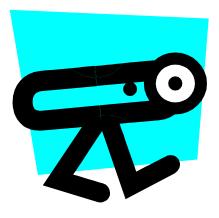




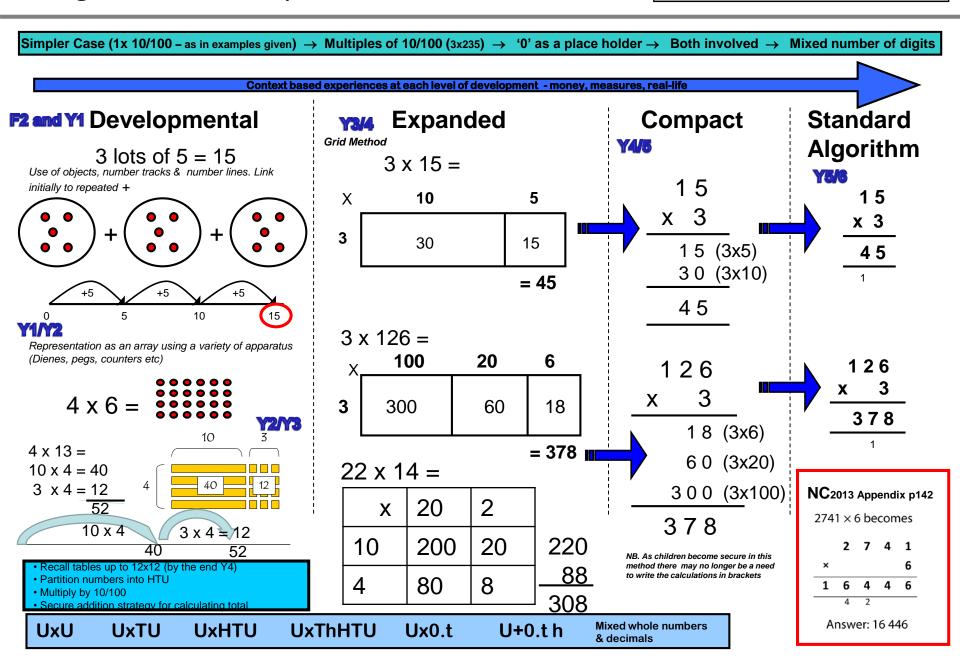


Linked Vocabulary

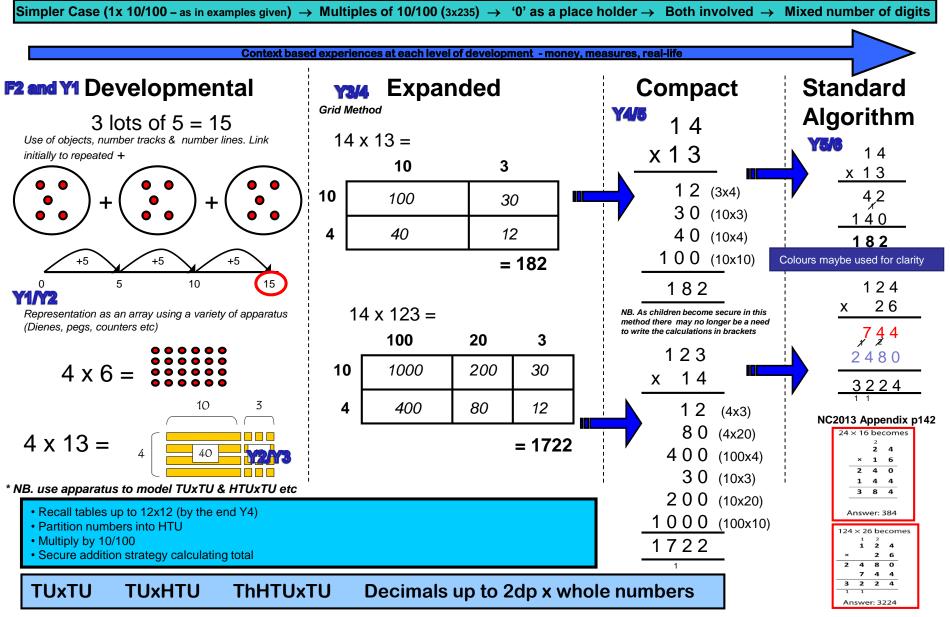
Take Take-away Leave Left Fewer Less than Decrease Difference between Minus Subtract Subtract







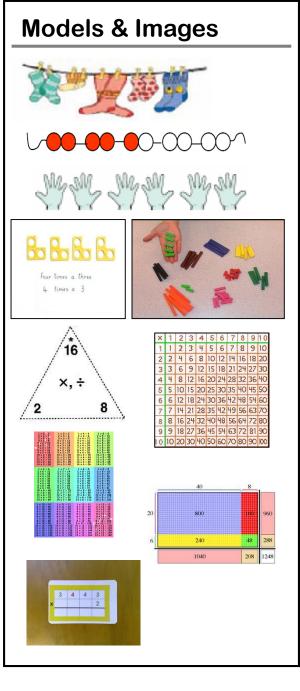
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EIO: Primary Mathematics (ST)

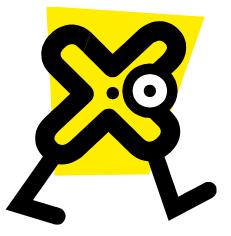
- Understanding on multiplying by 10/100 and what happens to place value of the number
- Rapid recall of multiplication tables is not secure and impacting of accuracy of calculation
- Interpretation of digits in the T/H columns as single digits eg 4x3 instead of 4x30
- Children should be taught to recall multiplication facts and given strategies to quickly work out unknown facts.

Year One -2, 5 and 10 Year Two -2, 5, 10 and 3 Year Three - 2, 5, 10, 3, 4 and 8 Year Four - all tables.



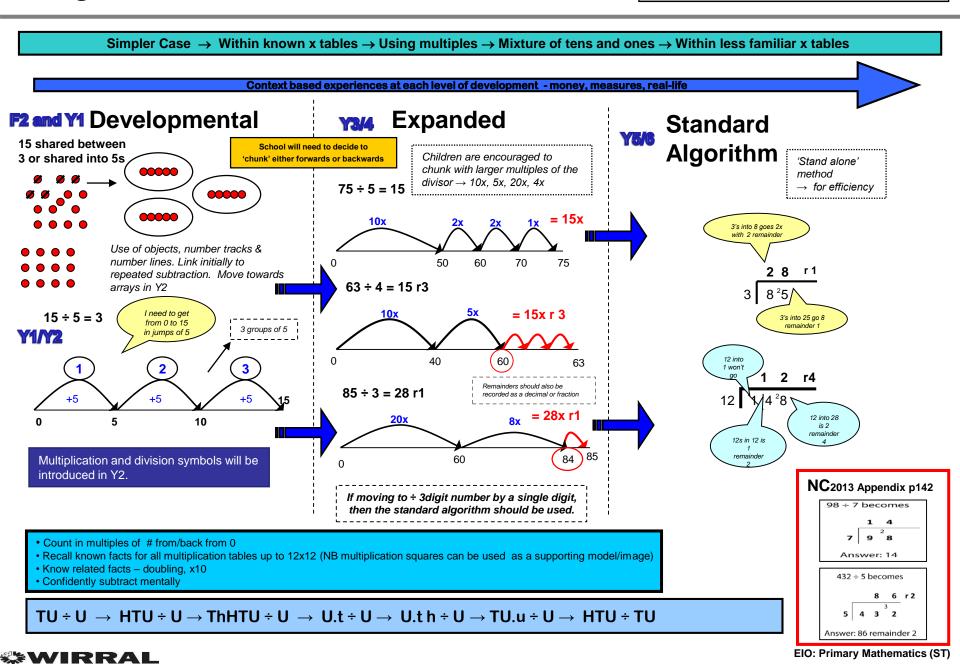
Linked Vocabulary

Repeated addition Groups of Lots of Multiply Times Multiplication Product Array

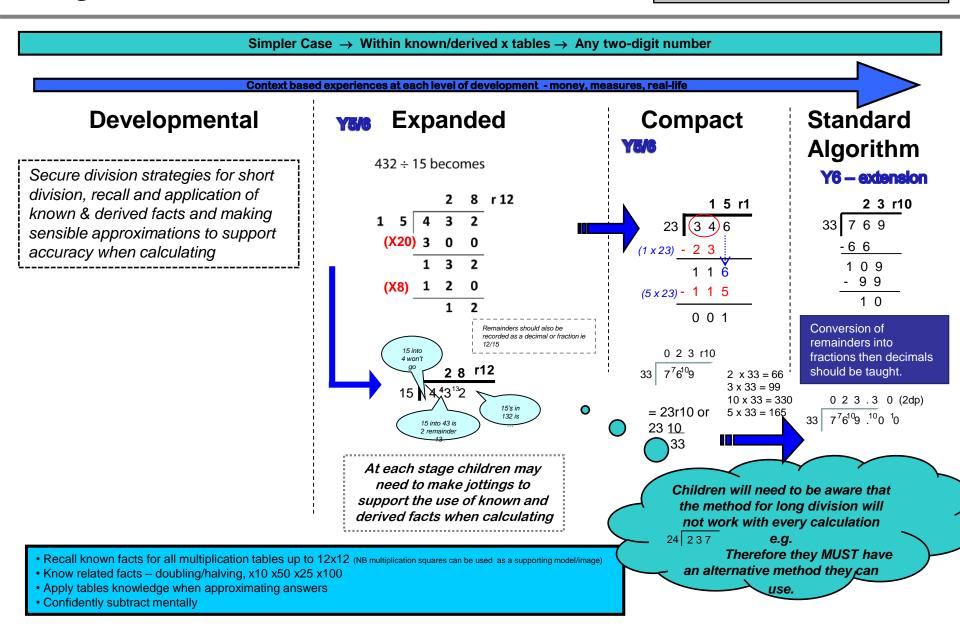




• Division is the inverse of multiplication



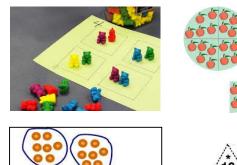
• Division is the inverse of multiplication

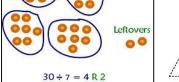




- Lack of understanding of 'remainders' and their importance to the context of the problem
- Insecure understanding of place value to know what each digit is representing
- Unable to derive facts from known facts and 'play' with numbers
- Approximations are wildly inaccurate so answers cannot be judged in the context of the problem/calculation
- No method to 'fall back' on where use of a formal method won't work
- Instant recall of and strategies to quickly work out division facts related to the times tables for their year group should be taught.



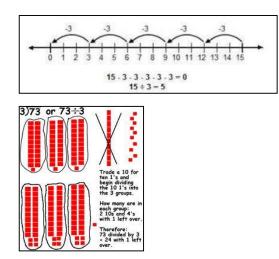






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Linked Vocabulary

Divisor Divisible Divide Group Share Chunk Remainder Sharing / shared Equal groups



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