



Ivy Lane School Calculation Policy

Division

Revised and Reissued November 2019

Ivy Lane progression of calculation strategies - Division

| Key objective from NNS with examples and page references. | Year Group Expectation | Vocabulary. | Methods & Manipulatives | Suggested Mastery Resources |
|---|------------------------|---|---|---|
| 1) Practical sharing through play Halving | Y1 | sharing grouping | | IseereasoningKS1 (T:/curriculum/Maths) White Rose |
| 2) Division as sharing into equal groups $12 \div 4 = 3$ PRACTICAL ACTIVITIES | Y1 | One each Two each Halve Divide Left over Equal groups of | 12 shared into 4 equal groups gives 3 in each group □□ □□ □□ □□ | |
| 3) Division as grouping (putting objects into equal groups) | Y2 | | $12 \div 4 = 3$ If 12 is split into groups of 4, there are 3 groups. <i>Diennes</i> <i>Cubes</i> | |
| 4) Use knowledge of multiplication tables. | Y2 | Inverse operation multiply | $20 \div 5 = 4$ 5, 10, 15, 20, - there are 4 5's in 20. <i>Diennes</i> <i>Cubes</i> | |

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|--|--------------------|---|--|--|
| <p>6) Bus shelter method</p> <p>To start with TU÷U</p> | <p>Y4 - Y6</p> | <p>Divide Equal groups of Divided into Share Divisible Remainders carry</p> | <p>$362 \div 7 =$</p> $\begin{array}{r} 51r5 \\ 7 \overline{) 362} \end{array}$ <p>$362 \div 7 = 51 \text{ r}5$</p> | <p>Mastery Resources</p> <p>IseereasoningLKS2/UKS2</p> <p>White Rose</p> <p>+(T;/curriculum/Maths/ Reasoning T&L)</p> |
| <p>7)) Bus shelter method</p> <p>Extend to include decimals and two-digit numbers</p> | <p>Y5/6</p> | <p>Divide Equal groups of Divided into Share Divisible Remainders carry</p> | <p>$547 \div 23 =$</p> $\begin{array}{r} 23r18 \\ 23 \overline{) 547} \end{array}$ <p>$547 \div 23 = 23 \text{ r}18$</p> | |

8) Year 6
Long Division method

Ladder Method for Recording Division with
Partial Quotients

$$\begin{array}{r} 6 \overline{) 962} \\ \underline{600} \quad \times 100 \\ 362 \\ \underline{120} \quad \times 20 \\ 242 \\ \underline{240} \quad \times 40 \\ 2 \quad \color{red}{160 R 2} \end{array}$$
$$\begin{array}{r} 6 \overline{) 962} \\ \underline{600} \quad \times 100 \\ 362 \\ \underline{180} \quad \times 30 \\ 182 \\ \underline{180} \quad \times 30 \\ 2 \quad \color{red}{160 R 2} \end{array}$$