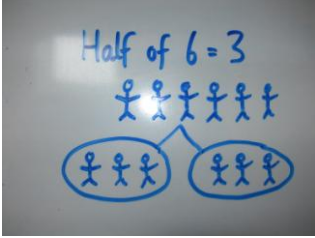
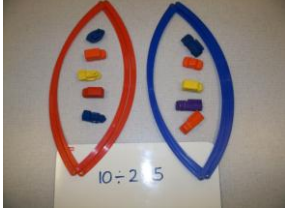

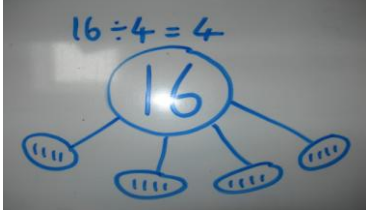
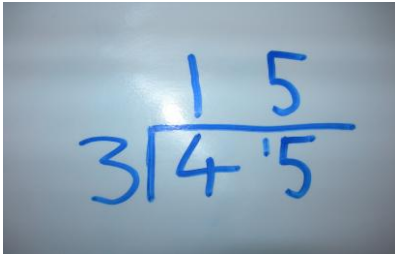
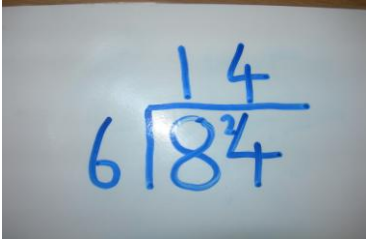
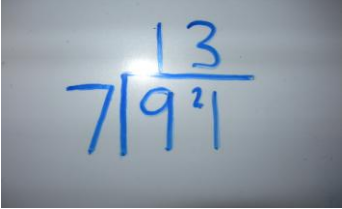
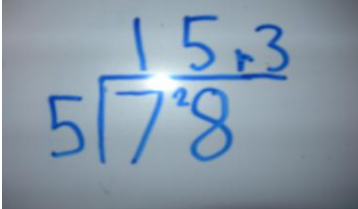


Melling Primary School Calculations Progressions

DIVISION

<p>1) Halving up to 10</p> 	<p>2) Using concrete objects to divide up to 20</p> 
<p>3) Using concrete objects to divide up to 50</p> 	<p>4) Informal method of sharing up to 100</p> 
<p>5) Short division by 2,3,4 and 5 with carrying</p> 	<p>6) Short division method by 2,3,4,5,6,8, with carrying</p> 
<p>7) Short division method by any single digit with carrying</p> 	<p>8) Short division by any single digit with remainders</p> 

9)

Short division of a 3-digit number by a single digit

Handwritten short division of 432 by 5. The quotient is 86 with a remainder of 2. The work shows 5 dividing 43 to get 8, then 5 dividing 32 to get 6 with a remainder of 2.

$$\begin{array}{r} 86r2 \\ 5 \overline{)432} \end{array}$$

10)

Short division of a 4-digit by a single digit

Handwritten short division of 5267 by 3. The quotient is 1755 with a remainder of 2. The work shows 3 dividing 52 to get 17, then 3 dividing 26 to get 8 with a remainder of 2, and finally 3 dividing 27 to get 9.

$$\begin{array}{r} 1755r2 \\ 3 \overline{)5267} \end{array}$$

11)

Long division by a 2 digit number by chunking

Handwritten long division of 560 by 24 using chunking. The quotient is 23 with a remainder of 8. The work shows 24 dividing 560. First, 20 times 24 (480) is subtracted from 560, leaving 80. Then, 3 times 24 (72) is subtracted from 80, leaving a remainder of 8.

$$\begin{array}{r} 23r8 \\ 24 \overline{)560} \\ - 480 \quad 20 \times 24 \\ \hline 80 \\ - 72 \quad 3 \times 24 \\ \hline 8 \end{array}$$

12)

Divide a number with 2 decimal places by a single digit

Handwritten short division of 78.36 by 4. The quotient is 19.59. The work shows 4 dividing 78 to get 19, then 4 dividing 36 to get 9.

$$\begin{array}{r} 19.59 \\ 4 \overline{)78.36} \end{array}$$