

Welcome to Year 5/6
Calculation Evening

Column Addition

A7e: Column Addition

$$\begin{array}{r} 787567 \\ + 446278 \\ \hline 1233845 \\ \hline \end{array}$$

1 1 1 1 1

Column Addition with Decimals

A7j: Column Addition

With Decimals

$$73.4 + 5.67 = 79.07$$

$$\begin{array}{r} \text{10} \quad \text{1} \quad = \quad \frac{1}{10} \quad \frac{1}{100} \\ 73.4 \\ + 5.67 \\ \hline 79.07 \\ \hline \end{array}$$

Column Subtraction

S11e: Column Subtraction

$$\begin{array}{r} \text{3} \quad \text{1} \quad \text{7} \quad \text{12} \quad \text{1} \\ 742831 \\ - 427358 \\ \hline 315473 \\ \hline \end{array}$$

Column Subtraction with Decimals

S11f: Column Subtraction

$$\begin{array}{r}
 \begin{array}{c} 10 \quad 1 \quad \frac{1}{10} \\ 0 \quad 12 \quad 1 \\ \cancel{1} \cancel{3} . 4 \\ - 8 . 7 \\ \hline 4 . 7 \end{array}
 \end{array}$$

S11g: Column Subtraction

$$\begin{array}{r}
 \begin{array}{c} 10 \quad 1 \quad \frac{1}{10} \quad \frac{1}{100} \\ 6 \quad 11 \quad 13 \quad 1 \\ \cancel{7} \cancel{2} . \cancel{4} 3 \\ - 47 . 85 \\ \hline 24 . 58 \end{array}
 \end{array}$$

Column Multiplication

M9g: Long Multiplication Column

$$\begin{array}{r}
 \begin{array}{r}
 3786 \\
 \times 48 \\
 \hline
 30288 \quad (8 \times 3786) \\
 + 151440 \quad (40 \times 3786) \\
 \hline
 181728
 \end{array}
 \end{array}$$

Column Multiplication with Decimals

M9e: Column Multiplication

$$\begin{array}{r} \begin{array}{c} 10 \quad 1 \quad = \quad \frac{1}{10} \quad \frac{1}{100} \\ 7.38 \\ \times 6 \\ \hline 44.28 \\ \hline 4 \quad 2 \quad 4 \end{array} \end{array}$$

Short Division (bus stop method)

D10e: Short Division

$$5978 \div 7 = 854$$

$$\begin{array}{r} 854 \\ 7 \overline{) 5978} \end{array}$$

Long Division (formal method)

Useful List

- 1 x 24 = 24
- 2 x 24 = 48
- 3 x 24 = 72
- 4 x 24 = 96

$$\begin{array}{r} 123 \\ 24 \overline{) 2952} \\ \underline{-24} \downarrow \\ 55 \downarrow \\ \underline{-48} \downarrow \\ 72 \end{array}$$

Long Division with Remainder (formal method)

Useful List

- 1 x 23 = 23
- 2 x 23 = 46
- 3 x 23 = 69
- 4 x 23 = 92
- 5 x 23 = 115

$$\begin{array}{r} 144 \text{ r}4 \\ 23 \overline{) 3316} \\ \underline{-23} \downarrow \\ 101 \downarrow \\ \underline{-92} \downarrow \\ 96 \downarrow \\ \underline{-92} \downarrow \\ 4 \end{array}$$