

Year 5 —Written calculation policy

ADDITION

- Put each digit in a square.
- Use the correct columns.
- Any whole number with more than 4 digits



Formal Column method:

- Formal method with or without regrouping
- Strike through carry once included in answer.

$$\begin{array}{r}
 12,462 \\
 + \quad 2,349 \\
 \hline
 14,811
 \end{array}$$

- Use these methods to add decimals up to 3 decimal places.
- Line up the decimal point
- Zero can be added to blank columns to aid understanding as it doesn't change the value.

$$\begin{array}{r}
 24.090 \\
 + 7.137 \\
 \hline
 31.227
 \end{array}$$

SUBTRACTION

- Put each digit in a square.
- Use the correct columns.
- Up to 4 digit num



Column Involving regrouping:

$$\begin{array}{r}
 6,702 \\
 - 468 \\
 \hline
 6,234
 \end{array}$$

- Use these methods to subtract decimals up to 3 decimal places
- Zero can be added to blank columns to aid understanding as it doesn't change the value.

$$\begin{array}{r}
 7.546 \\
 - 1.180 \\
 \hline
 6.376
 \end{array}$$



- Use constant difference when a subtraction would involve a lot of exchanging.

$$\begin{array}{r}
 3.12 \\
 - 3.11 \\
 \hline
 0.01
 \end{array}$$

$$\begin{array}{r}
 14,910 \\
 - 3,120 \\
 \hline
 11,790
 \end{array}$$

$$\begin{array}{r}
 14.99 \\
 - 3.11 \\
 \hline
 11.88
 \end{array}$$

MULTIPLICATION

- Put each digit in a square.
- Use the correct columns.
- Up to 4 digit numbers by 1 or 2 digit numbers



Short multiplication

$$\begin{array}{r}
 546 \\
 \times 3 \\
 \hline
 1638
 \end{array}$$

Long Multiplication

- Expanded method

$$\begin{array}{r}
 24 \\
 \times 16 \\
 \hline
 24 \quad (6 \times 4) \\
 120 \quad (6 \times 20) \\
 40 \quad (10 \times 4) \\
 200 \quad (10 \times 20) \\
 \hline
 384
 \end{array}$$



- Move onto compact method

$$\begin{array}{r}
 256 \\
 \times 17 \\
 \hline
 1732 \quad (256 \times 7) \\
 2560 \quad (256 \times 10) \\
 \hline
 4352
 \end{array}$$

DIVISION

- Put each digit in a square.
- Up to 4 digit numbers by 1 digit numbers



Short division

$$\begin{array}{r}
 039 \\
 4 \overline{) 153} \\
 \hline
 153
 \end{array}$$

Short division with remainders

$$\begin{array}{r}
 57r2 \\
 8 \overline{) 458} \\
 \hline
 458
 \end{array}$$

Express remainders appropriately for context:

- 57 people 2 person left over. So 58 cars will be needed.
- or as a fraction - $57\frac{2}{8}$
- or as a decimal e.g £458 divided between 8 people = £57.25 each

$$\begin{array}{r}
 57.25 \\
 8 \overline{) 458.00} \\
 \hline
 458.00
 \end{array}$$

