



Year 5/6

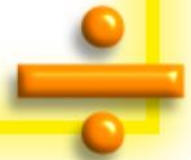
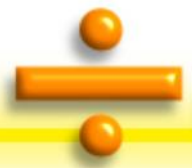
Steps to

Success



Addition +

put together, add, addition, altogether, total, more than, sum, difference, calculation, partitioning, columnar addition, inverse, estimate, rounding, accuracy



Method 1:

$$\begin{array}{r}
 7648 \\
 + 1486 \\
 \hline
 9134 \\
 111
 \end{array}$$

$$\begin{array}{r}
 £65.84 \\
 + £58.48 \\
 \hline
 £124.32 \\
 111
 \end{array}$$

$$\begin{array}{r}
 42 \\
 6432 \\
 786 \\
 3 \\
 + 4681 \\
 \hline
 11944 \\
 121
 \end{array}$$

- line up Th, H, T and U etc.
- carry below the line
- approximate answers first
- line up decimal points



Subtraction (-)

take away, distance between, difference between, less than, least, inverse, sum, difference, columnar subtraction, estimation, rounding, exchange

Method 1:

$$\begin{array}{r}
 600 \quad 140 \\
 \cancel{700} / \cancel{50} / ^14 \\
 - \cancel{200} / \cancel{80} / \cancel{6} \\
 \hline
 400 + 60 + 8 = 468
 \end{array}$$

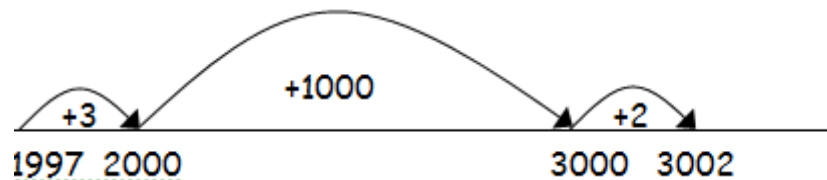
- partition H, T & U
- line up H, T & U
- if you can't take the number away, exchange from the next column

Method 2:

$$\begin{array}{r}
 ^5 ^{13} ^1 \\
 6467 \\
 - 2684 \\
 \hline
 3783
 \end{array}$$

- line up Th, H, T and U etc.
- if you can't take the number away, exchange from the next column
- approximate answers first
- line up decimal points

Method 3:



Multiplication (x)

group, lots of, double, array, repeated addition, times, multiply, product, partitioning, squared, cubed

Method 1:

24 × 6 becomes

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \\ 2 \end{array}$$

Answer: 144

342 × 7 becomes

$$\begin{array}{r} 342 \\ \times 7 \\ \hline 2394 \\ 21 \end{array}$$

Answer: 2394

- approximate an answer first.

- carry below the line.

-H, T, U & decimal place

All line up

-jottings can be used

24 × 16 becomes

$$\begin{array}{r} 24 \\ \times 16 \\ \hline 144 \\ 240 \\ \hline 384 \end{array}$$

Answer: 384

124 × 26 becomes

$$\begin{array}{r} 124 \\ \times 26 \\ \hline 744 \\ 2480 \\ \hline 3224 \\ 11 \end{array}$$

Answer: 3224

7.4 × 6 becomes

$$\begin{array}{r} 7.4 \\ \times 6 \\ \hline 42.0 \\ 42.0 \\ \hline 44.4 \end{array}$$

Division (÷)

Share, groups, halve, divide, repeated subtraction, remainder, quotient, divisible by, rounding

Method 1:

432 ÷ 5 becomes

$$\begin{array}{r} 86 \text{ r}2 \\ 5 \overline{) 432} \end{array}$$

Answer: 86 remainder 2

- the remainder may be expressed as either a decimal (0.4) or a fraction (2/5)

- approximate an answer first

- round up or down depending on the context

- use jottings to support you

Method 2:

432 ÷ 15 becomes

$$\begin{array}{r} 28 \\ 15 \overline{) 432} \\ \underline{300} \quad 15 \times 20 \\ 132 \\ \underline{120} \quad 15 \times 8 \\ 12 \end{array}$$

432 ÷ 15 becomes

$$\begin{array}{r} 28.8 \\ 15 \overline{) 432.0} \\ \underline{300} \quad \downarrow \\ 132 \\ \underline{120} \quad \downarrow \\ 120 \\ \underline{120} \\ 0 \end{array}$$