

CALCULATION STRATEGIES

Division (bus stop method)

$$716 \div 4 = \boxed{179}$$

$$\begin{array}{r} 179 \\ 4 \overline{) 716} \end{array}$$

"4 goes into 7 once with 3 remaining → exchange"

$$\begin{array}{r} 049.6 \\ 5 \overline{) 248.0} \end{array}$$

* We need to extend this number into the decimals. Don't forget the decimal point!

Multiplying and Dividing by 10, 100 or 1000

* Move the digits!!!

↙ ↘ × — move the digits to the left
 ↙ ↘ ÷ — move the digits to the right

x/10 — move the digits one place
 x/100 — move the digits two places
 x/1000 — move the digits three places

Th H T O . t h th
 2.3
 230
 546.8
 54.68

↙ ↘ move the digits two places left
 $2.3 \times 100 = \boxed{}$
 $546.8 \div 10 = \boxed{}$
 ↙ ↘ move the digits one place right

Long Division

$$1652 \div 28 = \boxed{}$$

* Method 1 - short division (bus stop)

$$\begin{array}{r} 59 \\ 28 \overline{) 1652} \end{array}$$

165 ÷ 28
 → 28 goes into 165 five times with 25 left over
 → 28 goes into 252 nine times exactly.

* Find the multiples

20	+	8	=	28
40	+	16	=	56
60	+	24	=	84
80	+	32	=	112
100	+	40	=	140
120	+	48	=	168
140	+	56	=	196
160	+	64	=	224
180	+	72	=	252
200	+	80	=	280

Rounding

e.g. 0 4 6 3 5 rounded to the nearest hundred
 (4600) 4700

- ① Circle the digit
- ② Underline the neighbour
- ③ Find the possibilities
- ④ Find the line, say the rhyme

0, 1, 2, 3, 4 gotta round it down for sure
 5, 6, 7, 8, 9 gotta round it up this time

* Method 2 - expanded method

(long division)

$$\begin{array}{r} 59 \\ 28 \overline{) 1652} \\ - 140 \\ \hline 0252 \end{array}$$

- 28 × 5 = 140
- 165 - 140 = 25
- Bring down the digit ↓
- 28 × 9 = 252