



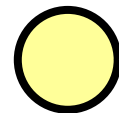
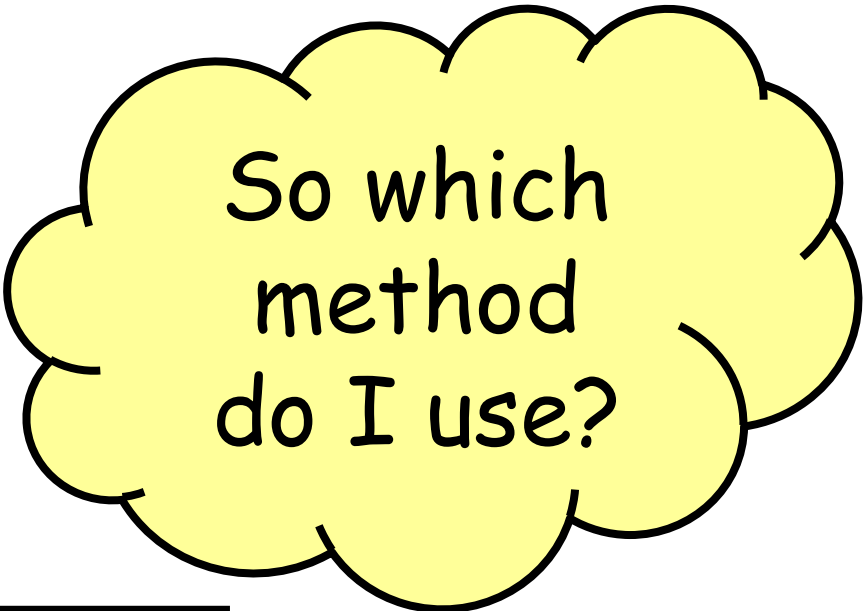
Calculation at Chesswood

Division

Number Line



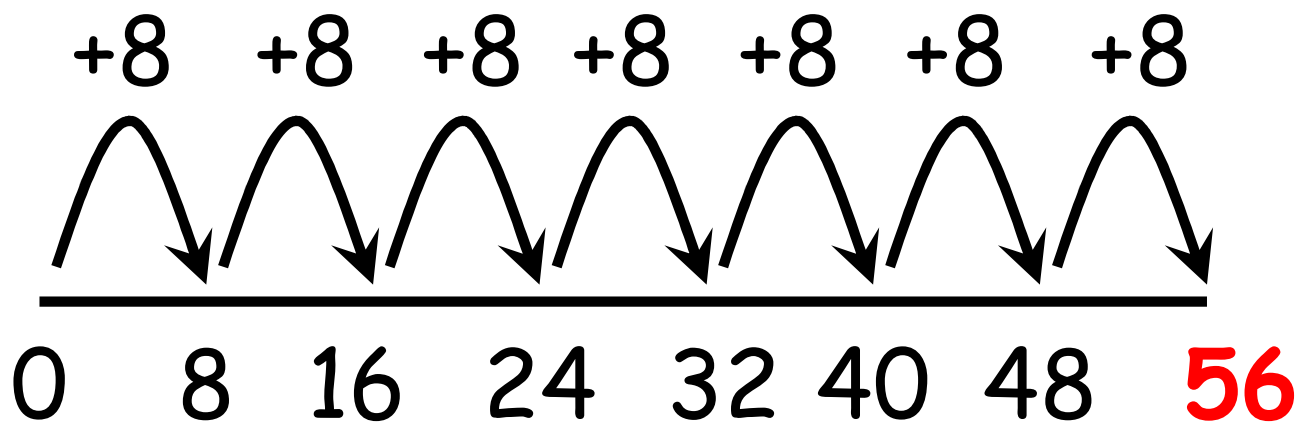
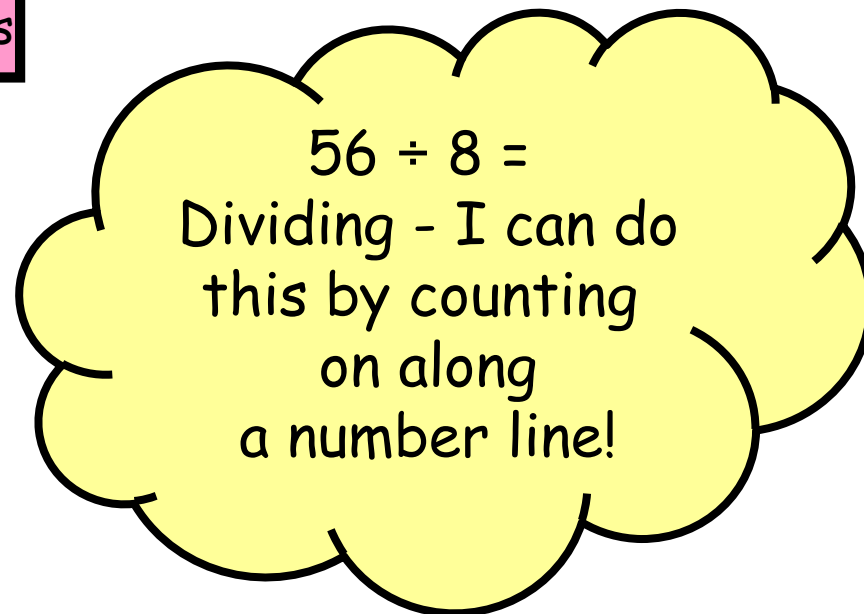
Compact Method





Number Line in small jumps

We are dividing by counting on 8 each time since we are dividing by 8.



It took 7 jumps to get to 56 ... so $56 \div 8$ is 7

$$56 \div 8 = 7$$

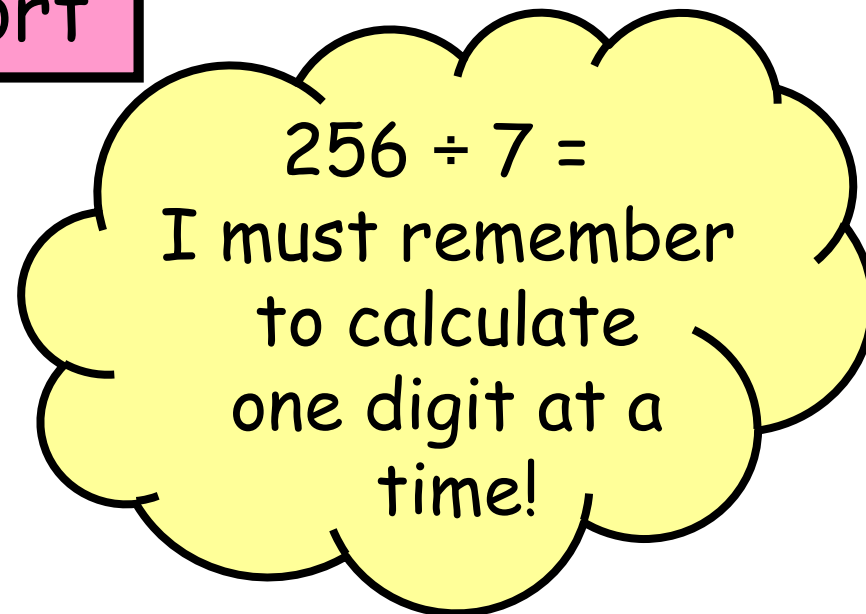




Compact Method - Short

Use squared paper to help write in the place value columns.

Always start dividing from the largest value digit (8 = 800)



$$\begin{array}{r} 125 \\ 7 \overline{) 875} \end{array}$$

$$\begin{array}{l} 8 \div 7 = 1 \text{ r}1 \\ 17 \div 7 = 2 \text{ r}3 \\ 36 \div 7 = 5 \end{array}$$

(Write the remainder next to the digit in the place value column to the right.)

$$875 \div 7 = 125$$

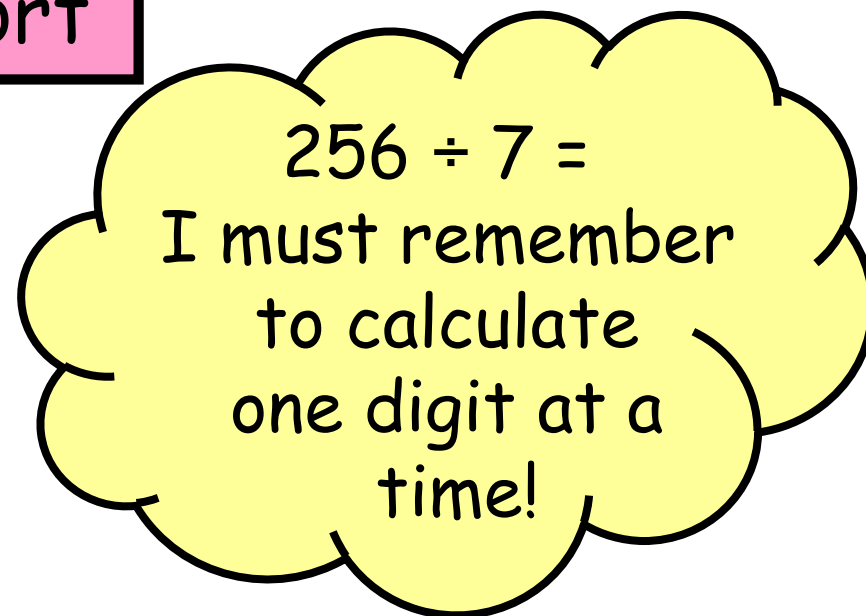




Compact Method - Short

Use squared paper to help write in the place value columns.

Always start dividing from the largest value digit (8 = 800)



$$\begin{array}{r} 125r1 \\ 7 \overline{) 876} \end{array}$$

$$\begin{array}{l} 8 \div 7 = 1 r1 \\ 17 \div 7 = 2 r3 \\ 36 \div 7 = 5 r1 \end{array}$$

(Write the remainder next to the digit in the place value column to the right.)

$$876 \div 7 = 125 r1$$

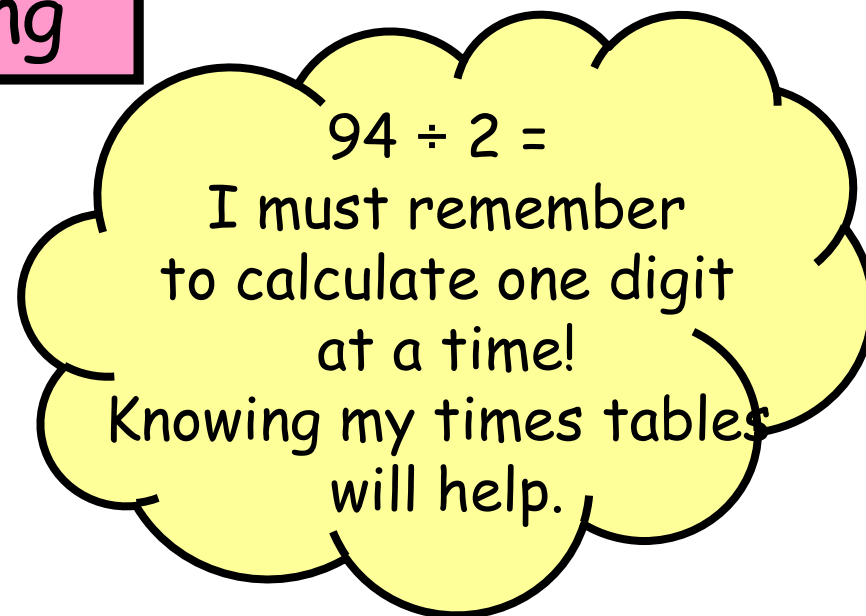




Compact Method - Long

$$\begin{array}{r} 47 \\ 2 \overline{) 94} \\ \underline{-8} \\ 14 \\ \underline{-14} \\ 0 \end{array}$$

$$9 \div 2 = 4 \text{ r}1$$
$$14 \div 2 = 7$$



Use squared paper to help write
in the place value columns.

Always start dividing from the
largest value digit ($4 = 40$)

$$94 \div 2 = 47$$





Compact Method - Long

$$\begin{array}{r} 125 \text{ r}1 \\ 7 \overline{) 876} \\ \underline{8} \\ 17 \\ \underline{14} \\ 36 \\ \underline{35} \\ 1 \end{array}$$

$$\begin{array}{l} 8 \div 7 = 1 \text{ r}1 \\ 17 \div 7 = 2 \text{ r}3 \\ 36 \div 7 = 5 \text{ r}1 \end{array}$$

876 ÷ 7 =
I must remember
to calculate one digit
at a time!
Knowing my times tables
will help.

Use squared paper to help write
in the place value columns.

Always start dividing from the
largest value digit (8 = 800)

$$876 \div 7 = 125 \text{ r}1$$





Compact Method - Long

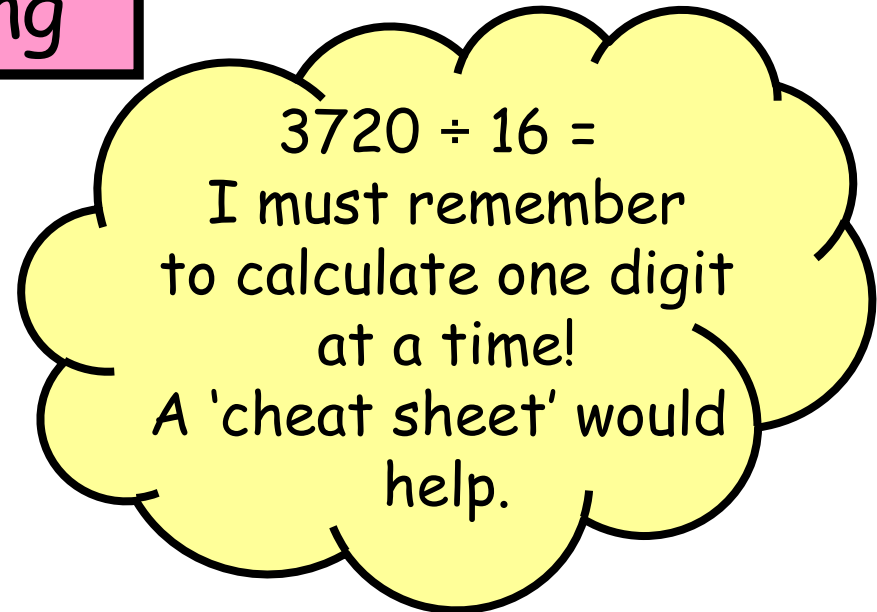
$$\begin{array}{r} 0232r8 \\ 16 \overline{) 3720} \\ \underline{37} \\ 52 \\ \underline{48} \\ 40 \\ \underline{32} \\ 8 \end{array}$$

$$3 \div 16 = 0 r3$$

$$37 \div 16 = 2 r5$$

$$52 \div 16 = 3 r4$$

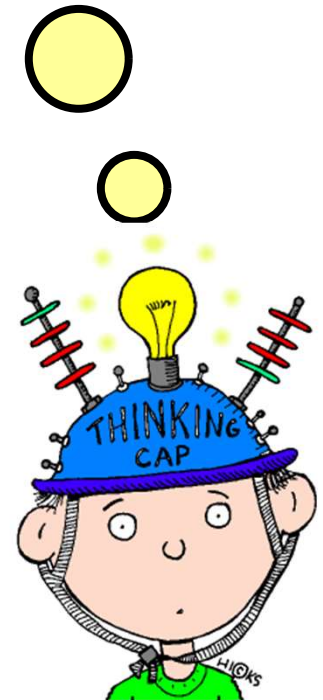
$$40 \div 16 = 2 r8$$



Use squared paper to help write in the place value columns.

Always start dividing from the largest value digit (3 = 3000)

$$3720 \div 16 = 232 r8$$





Compact Method - Long
Converting the remainder

$$\begin{array}{r} 0232.5 \\ 16 \overline{) 3720.0} \\ \underline{37} \\ 52 \\ \underline{48} \\ 40 \\ \underline{32} \\ 80 \\ \underline{80} \\ 0 \end{array}$$

Decimals: include another 0 after the decimal point and keep calculating in the same way (up to 2 decimal places).

I can convert a remainder into a fraction or a decimal.

Fractions: remainder 8 out of 16 ($\frac{8}{16} = \frac{1}{2} = .5$)

$$3720 \div 16 = 232 \text{ r}8 \text{ or } 232 \frac{8}{16} \\ \text{or } 232 \frac{1}{2} \text{ or } 232.5 \\ \text{or round to } 233!$$

