

Division of Decimals by multiples of 10, 100, 1000

Be able to divide any decimal number by a multiple of 10, 100 or 1000

Remember :-

- If you divide by 10, move all the figures **ONE** place **RIGHT** (or move the point one place left).
- If you divide by 100, move all the figures **TWO** places **RIGHT** (or move the point two places left).
- If you divide by 1000, move all the figures **THREE** places **RIGHT** (or move the point three places left).

Learn the following rules :-

- To divide by 20 => divide by 10 then divide by 2.
- To divide by 300 => divide by 100 then divide by 3.
- To divide by 4000 => divide by 1000 then divide by 4.

Exercise 2

1. Copy and complete each sentence :-

- a To divide by 90 you would divide by 10 then divide by
- b To divide by 700 you would divide by then
- c To divide by 5000

2. Copy and complete using the rules above :-

a $84.6 \div 20 =$

$$\begin{array}{r} 10 \overline{) 84.6} \end{array} \rightarrow \begin{array}{r} 4 \dots \\ 2 \overline{) 84.6} \end{array}$$

b $123.6 \div 300 =$

$$\begin{array}{r} 300 \overline{) 123.6} \end{array} \rightarrow \begin{array}{r} 0 \dots \\ 3 \overline{) 123.6} \end{array}$$

3. Find :-

- | | | | |
|--------------------|---------------------|-------------------|-------------------|
| a $32.2 \div 20$ | b $137.8 \div 40$ | c $51.95 \div 50$ | d $437.6 \div 40$ |
| e $11.46 \div 600$ | f $245.35 \div 700$ | g $9.018 \div 90$ | h $13 \div 500$ |
| i $88.4 \div 2000$ | j $96 \div 4000$ | k $0.8 \div 5000$ | l $568 \div 4000$ |

4. Find :-

- | | | | |
|--------------------|--------------------|-------------------|-----------------------|
| a $612 \div 900$ | b 6.07×80 | c $51.92 \div 80$ | d $436 \div 4000$ |
| e $1.29 \div 50$ | f 240×70 | g $11.4 \div 300$ | h $96 \div 6000$ |
| i 17.7×70 | j $0.99 \div 300$ | k $0.8 \div 40$ | l 0.055×9000 |

5. Use a calculator to check all your answers.