

## Division with decimals

Verbally, aloud or in your head, same words. This is old school.

	Process	Explanation
1	$2.4 \div 8$	The question
2	$\begin{array}{r} 8 \overline{) 2.4} \end{array}$	Complete the division step by step working from left to right. You could visualise the question as an algorithm
3	$\begin{array}{r} 0 \\ 8 \overline{) 2.4} \end{array}$	8 into 2 does not go. The answer is zero so write zero.
4	$\begin{array}{r} 0. \\ 8 \overline{) 2.4} \end{array}$	Next is the decimal point so write in the decimal point after the zero. <b>Holding place value is the key to getting the correct answer.</b>
5	$\begin{array}{r} 0. \\ 8 \overline{) 2.4} \end{array}$	You can carry the 2 or just ignore the decimal point as it has been dealt with.
6	$\begin{array}{r} 0.3 \\ 8 \overline{) 2.4} \end{array}$	Now you divide the 24 by 8 and get 3. Write the 3 down after the decimal place.
7	$2.4 \div 8 = 0.3$	You have the answer 0.3