

FOR PARENTS: Below is a guide to the teaching of division. Most children in Year 6 are able to use short division. We have included the teaching methods for Year 4 and 5 should you find you need to go back a step to aid understanding.

## Year 4 Divide up to 3-digit numbers by a single digit (without remainders initially)

Continue to develop short division


Once children demonstrate a full understanding of remainders, and also the short division method taught, they can be taught how to use the method when remainders occur within the calculation and be taught to carry the remainder onto the next digit.

$$
137 \times 5
$$



## Year 5 Divide up to 4 digits by a single digit, including those with

 remainders.Short division, including remainder answers
The answer to $5309 \div 8$ could be expressed as 663
 and five eighths, 663 r 5 , as a decimal or rounded as appropriate to the problem involved.


## Year 5 Advice for staff

## Short division with remainders

Now that pupils are introduced to examples that give rise to remainder answers, division needs to have a real life problem solving context, where pupils consider the
 meaning of the remainder and how to express it, ie. as a fraction, a decimal, or as a rounded number or value, depending upon the context of the problem.

## Year 6 Divide at least 4 digits by both single-digit and 2-digit

 numbers (including decimal numbers and quantities)Short division, for dividing by a single digit

$$
\text { e.g. } 6497 \div 8
$$



## Year 6 Advice for staff

## Short division with remainders

Pupils should continue to use this method, but with numbers to at least 4 digits, and understand how to express remainders as fractions, decimals, whole number remainders, or rounded numbers. Real life problem solving contexts need to be the starting point, where pupils have to consider the most appropriate way to express the remainder.

Calculating a decimal remainder: In this example, rather than expressing the remainder as $r$ 1, a decimal point is added after the units because there is still a remainder, and the one remainder is carried onto zeros after the decimal point (to show there was no decimal value in the original number). Keep dividing to an appropriate degree of accuracy for the problem being solved.

## When dividing by a double digit eg: $388 \div 23$, the short division method shown above should still be used.



They pupil should start by writing out the first 109 multiples in a list, and then use the same method as above. In this example the pupil would write out the first 10 multiples of 23 . The pupil would then use the list to support their working.

