





| appropriate for the <br> context. |  |  |
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| Decimal numbers |  |  |

For some examples, the fraction can be simplified.:
$26 \div 4=6 r 2$
$26 \div 4=62 / 4$
$26 \div 4=61 / 2$
Children can also express a remainder as a decimal. When using either short or long multiplication, by adding a decimal point and a zero to the number being divided, we are able to carry on the calculation.


They must also remember to add a decimal point to the answer line, in the same position as the one in the question. It might be that the children will be presented with an example where they need to add more than one zero on to the number being divided.


Examples where the numbers after the decimal point carry on indefinitely should not be given to the children at this stage.
Short and long division can be used to divide decimal numbers as well; children simply need to remember to put the decimal point in the same position on the answer line as it is in the question.


|  |  |  | $\begin{aligned} & 17 \times 10=17 \\ & 17 \times 5=85 \\ & 17 \times 2=34 \end{aligned}$ | 0 |
| :---: | :---: | :---: | :---: | :---: |
| Year 6 multiplication and division vocabulary | multiplication multiply multiplied by multiple, factor groups of times product once, twice, three times ... ten times repeated addition division dividing, divide, divided by, divided into left, left over, remainder grouping sharing, share, share equally one each, two each, three each ... ten each group in pairs, threes ... tens equal groups of doubling halving array row, column number patterns multiplication table multiplication fact, division fact inverse square, squared cube, cubed |  |  |  |

