## Multiplication and Division: Remainders

Aim:
Practise to become fluent in the formal written method of short division with exact answers (non-statutory).

I can use the short written method for division with remainders.

## Success Criteria:

I can set out the calculation correctly and start at the left-hand side.

I can calculate how many times the divisor will go into the first digit of the dividend and write the answer on top of the line.

I can regroup any remainders in the next column and continue the calculation, writing the answer on the top line.

I can write the final remainder on the top line.

## Key/New Words:

Written method, division, calculation, divide, remainders, regroup, divisor, dividend.

## Resources:

Lesson Pack
Whiteboard and pens - class set
Small manipulatives
Dice

## Preparation:

Differentiated Short Division with
Remainders Activity Sheet- 1 per child
Multiplication Square - as required

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## Learning Sequence

Sharing: The children work in pairs. One child grabs a large handful of small manipulatives. The other child rolls one
or two dice. Both partners then need to work together to share the cubes into the number of groups shown on the
die or dice. Are there any left over? What is this called? On whiteboards, children write the number sentence to go

with the calculation. | The Short Method for Division: Remind children of this method, emphasising the importance of setting out their |
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| work neatly, lining the digits up and calculating from left to right. |
| Practise: The children work independently working through the examples on the Lesson Presentation, practising the |
| short written method of division. Go through each answer as a class, addressing misconceptions. |
| Remainders: Demonstrate what to do when the divisor won't share exactly into the dividend. There are no columns |
| left, so it is not possible to use regrouping. This is a remainder. Model how to write this in a number sentence. |
| calculation and writing the remainder correctly. |

Masterit
Practiseit: The children play this differentiated BBC Game to practise the written method for division.
Playit: Children make and play Monster Division Top Cards.
Makeit: Children make their own top card game using this Template to practise other multiplication and division facts.


[^0]:    Prior Learning:
    It will be helpful if the children know the multiplication and division facts up to $12 \times 12$, and can use the short method for division without remainders (covered in Written Methods for Division (1): Short Division).

