

# Multiplication and Division: Short Division

<p><b>Aim:</b> Practise to become fluent in the formal written method of short division with exact answers (non-statutory).</p> <p>I can use the short written method for division.</p>	<p><b>Success Criteria:</b> I can set out the calculation correctly and start at the left-hand side.</p> <p>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.</p> <p>I can regroup any remainders in the next column and continue the calculation, writing the answer on the top line.</p>	<p><b>Resources:</b> <a href="#">Lesson Pack</a></p> <p>Whiteboards and pens - class set</p>
	<p><b>Key/New Words:</b> Written method, division, calculation, divide, remainders, divisor, dividend.</p>	<p><b>Preparation:</b> Differentiated <a href="#">Written Method for Activity Sheet</a> - 1 per child</p> <p><a href="#">Multiplication Square</a> - as required</p>

**Prior Learning:** It will be helpful if the children know the multiplication and division facts up to  $12 \times 12$ .

## Learning Sequence

	<p><b>Related Facts:</b> Looking at the table on the <a href="#">Lesson Presentation</a>, the children complete the division questions in the left-hand column as quickly as they can, then use related facts to solve the calculations in the right-hand column. Share answers and discuss methods.</p>	
	<p><b>The Short Method for Division:</b> Remind children how to use the short method for division. Explain the importance of setting out their work neatly, lining the digits up and calculating from left to right. Use the example on the <a href="#">Lesson Presentation</a> to model how to calculate the answer step by step.</p>	
	<p><b>Your Turn:</b> The children work in pairs practising the short method of written division. Share the answers and discuss misconceptions.</p>	
	<p><b>Dividing Larger Numbers:</b> Work through the example with a four-digit number, demonstrating that the method works exactly the same way with larger numbers.</p>	
	<p><b>The Written Method for Division:</b> Children complete the differentiated activities, using the short written method for division calculations without remainders.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Children complete the <a href="#">Family Trees Activity Sheet</a>, using times tables and related facts to complete division calculations, progressing to the short written method with two-digit numbers. Provide <a href="#">Multiplication Squares</a> for support if required.</p> </div> <div style="text-align: center;"> <p>Children complete the <a href="#">Written Method for Division Activity Sheet</a>, dividing two and three-digit numbers using short written division without remainders.</p> </div> <div style="text-align: center;"> <p>Children complete the <a href="#">Written Method for Division Activity Sheet</a>, dividing two, three and four-digit numbers using short written division without remainders.</p> </div> </div>	
	<p><b>Fix It!</b> The children use the Answer Sheet to mark their work with a partner, using the success criteria to check each step of the calculation. Together they highlight exactly where any errors occurred and correct them. What have they done well? What do they need to do to improve?</p>	

## Masterit

**Writeit:** The children write word problems to go with their division calculations. These could be linked with their current topic or work in other subjects.

**Teachit:** The children imagine they are the teacher, write a script, rehearse and film themselves explaining the method.