



	National Curriculum Statement	All students																				
		Fluency	Reasoning	Problem Solving																		
Four Operations	Divide numbers up to 4 digits by a 2 digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context.	<ul style="list-style-type: none"> 2538 people applied to be in a T.V. show audience. 14 people were invited to each show. How many shows did they make with full audiences and how many people were not invited? Work out $5834 \div 26$ Work out the missing number: $5792 \div 16 =$ 	<ul style="list-style-type: none"> Harry says "Without doing a written method I know $7350 \div 7$ will not have a remainder." Is he correct? Convince me. Belle divides 8541 by 8. She says "I know there will be a remainder before I start." Is she correct? Explain how you know. Megan divides 500 by 8 and gets the answer $62r4$. She rewrites it as $62 \frac{1}{2}$. Is she right? Explain your answer. 	<ul style="list-style-type: none"> A class were using place value counter to complete the calculation $112 \div 4$. One child arranged her counters like this. <div style="text-align: center;"> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">● ●</td> </tr> <tr> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">● ●</td> </tr> <tr> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">● ●</td> </tr> <tr> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">● ●</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">● ● ● ●</td> </tr> </tbody> </table> </div> What mistake has she made? Can you show me how to do it correctly? Using the number 4236, how many numbers up to 20 does it divide by without a remainder? Is there a pattern? What can you say about these numbers? Estimate how many people are in the picture below. At half time, a member of the crowd won £9284 in the raffle. They kindly offered to share it equally between the crowd and kept any money left over for themselves. How much would each person get from your estimate? <div style="text-align: center;">  </div> 	Hundreds	Tens	Ones	●	●	● ●	●	●	● ●	●	●	● ●	●	●	● ●			● ● ● ●
Hundreds	Tens	Ones																				
●	●	● ●																				
●	●	● ●																				
●	●	● ●																				
●	●	● ●																				
		● ● ● ●																				

	National Curriculum Statement	All students						
		Fluency	Reasoning	Problem Solving				
Decimals	Use written division methods in cases where the answer has up to two decimal places.	<ul style="list-style-type: none"> Solve: $25 \div 4 =$ $237 \div 4 =$ $9462 \div 8 =$ Jasper has £453 pounds. He splits his money between four different bank accounts. How much does he put in each bank account? Sort the divisions below into the table. <table border="1" style="margin: 10px auto;"> <thead> <tr> <th>Answers with 1dp</th> <th>Answers with 2dp</th> </tr> </thead> <tbody> <tr> <td style="height: 40px;"></td> <td style="height: 40px;"></td> </tr> </tbody> </table> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="text-align: center;"> $127 \div 2$ $947 \div 4$ $236 \div 5$ </div> <div style="text-align: center;"> $846 \div 4$ $236 \div 8$ $457 \div 5$ </div> </div> <p>Can you add one more division sentence to each box?</p> 	Answers with 1dp	Answers with 2dp			<ul style="list-style-type: none"> Stefan and Tilly are both calculating the answer to $147 \div 4$ <p>Stefan says, "The answer is 36 remainder 3"</p> <p>Tilly says, "The answer is 36.75"</p> <p>Who do you agree with? Explain your answer.</p> True or False <p>The only number that divides to give an answer with 1 decimal place is 2.</p> <p>Prove it.</p> True or False <p>The only numbers that divide to give an answer with 2 decimal places are 4 and 8.</p> <p>Justify your answer.</p> 	<ul style="list-style-type: none"> Find the smallest number that can be added to 92.7 to make it exactly divisible by 7. How about 8? Each division sentence can be completed using the digits below. If there is more than one digit missing from the division it must be filled with the same digit. e.g. $44 \div 5 = 8.8$ <div style="text-align: center; margin: 10px 0;">  </div> <div style="text-align: center; margin: 10px 0;"> $\square 3 \div \square = 10.33$ $12 \square \div \square = 18.14$ $\square 34 \div \square = 104.25$ </div>
		Answers with 1dp	Answers with 2dp					

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Four Operations	Solve problems involving addition, subtraction, multiplication and division.	<p>Covered above</p> <p>Jessica is rowing along the coast to Sunshine Cove. Each day she rows less because she gets more tired. On the first day she covers 38 kilometres, on the second day 35 kilometres, on the third day 32 kilometres and on the fourth day 29 kilometres. How many days will it take her to cover the distance of 203 kilometres to Sunshine Cove?</p>	<p>Covered above</p> <p>My way! Give a group of four a list of sums e.g. 19×24 $198 + 997$ Half of 57.6 $3841 - 665.3$ $5.2 \div 4$ $101 \times 16 \times 4$ Each child must work out the answers mentally but think about the strategies they are using. After, explain their strategy and discuss why you used it.</p>	<p>Covered above</p> <p>Letter challenge Can you solve these calculations by using 0,1,2,3,4,5,6,7,8 & 9</p> <p>E X F = HA I X H = D A X B = B J X D = IG C X C = EC</p> <p>You have been asked to bury some bags of money on an island. The money has been divided into nine separate bags containing these amounts: $\pounds 21$, $\pounds 20$, $\pounds 19$, $\pounds 12$, $\pounds 11$, $\pounds 10$, $\pounds 3$, $\pounds 2$, $\pounds 1$. You must bury the money in a three by three grid so that each row and column, horizontal, vertical and diagonal has $\pounds 33$.</p>

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Four Operations	<p>Use their knowledge of the order of operations to carry out calculations involving the four operations.</p>	<ul style="list-style-type: none"> $4(72 \div 9) \times (1923 - 382)$ Add brackets to make this calculation correct; $25 + 10 - 3 \times 20 - 15 = 20$ Sarah had 7 bags with 5 sweets in each. She added one more to each bag. Circle the calculation below that shows the correct working out. <div style="text-align: center;"> $7(5 + 1) = 42$ $7 \times 5 + 1 = 36$ $7 \times 5 + 1 = 42$ </div> 	<ul style="list-style-type: none"> Choose operations to go in the boxes to make the number sentences true: $5 \square 3 \square 8 = 23$ $5 \square 3 \square 8 = 29$ Daniel completed the following calculation and got the answer 168 $2(30 \div 5) + 14 = 168$ Can you explain what he did and where he made the mistake? Amy says "In BODMAS you can do multiplication and division either way round. This is the same for addition and subtraction." Is she correct? Can you include a calculation to support your answer? 	<ul style="list-style-type: none"> Countdown Ask children to choose 1 or 2 numbers from the 'top' (25/50/75/100) and 4 or 5 numbers from the 'bottom' 1-10. Children make a target number. Write different number sentences using the digits 3, 4, 5 and 8 before the equals sign that use: <ul style="list-style-type: none"> -one operation - two operations, no brackets - two operations, brackets Can you write a number sentence using the digits 3, 4, 5 and 8 before the equals sign, which has the same answer as another number sentence using the digits 3, 4, 5 and 8 but which is a different sentence?