	National Curriculum	All students		
	Statement	Fluency	Reasoning	Problem Solving
Multiplication and Division	Multiply and divide numbers mentally drawing upon known facts.	 8 x 6 = 48. Use this to help you find the answers to the number sentences: 48 ÷ 6 = 6 x 80 = Write down five multiplication and division facts that use the number 48. If I know 8 x 36 = 288, I also know 8 x 12 x 3 = 288 and 8 x 6 x 6 = 288. If you know 9 x 24 = 216, what else do you know? 	 How can you use 10 x 7 to help you find the 9th multiple of 7? Find the answer: 2 x 11 = 4 x 11 = 2 x 12 = 4 x 12 = 2 x 13 = 4 x 13 = What is the connection between the results for the two times table and the four times table? If 2 x 144= 288, what is 4 times 144? To multiply a number by 25 you multiply by 100 and then divide by 4. Use this strategy to solve. 84 x 25 28 x 25 5.6 x 25 	 40 cupcakes cost £3.60, how much do 20 cupcakes cost? How much do 10 cupcakes cost? If 8 x 24 = 192, how many other pairs of numbers can you write that have the product of 192? 10 times a number is 4350, what is 9 times the same number? Explain your working.



	National Curriculum		All students	
	Statement	Fluency	Reasoning	Problem Solving
Multiplication and Division	Multiply and divide whole numbers by 10, 100 and 1000.	 Solve: 345 x 10 = 345 x 100 = Fill the gaps: 3790 x = 379000 3790 ÷ = 379 X 1000 = 497200 Harry has £20, he wants to save 10 times this amount. How much more does he need to save? 	 Claire says 'When you multiply a number by 10 you just add a nought and when you multiply by 100 you add two noughts.' Do you agree? Explain your answer. Apples weigh about 160g each. How many apples would you expect to get in a 2kg bag? Explain your reasoning. 6 x 7 = 42 How can you use this fact to solve the following calculations? 4200 ÷ 70 = 0.6 x 0.7 = 	 Here are the answers to the questions. Can you write three different questions that could make these numbers by multiplying and dividing by 10, 100 or 1000? 5890, 40, 67000, 2000 David has £35700 in his bank. He divides the amount by 100 and takes that much money out of the bank. Using the money he has taken out he spends £268 on furniture for his new house. How much money does David have left from the money he took out? Show your working.



Year 5

	National Curriquium Statement	All Students				
	National Curriculum Statement	Fluency	Reasoning	Problem Solving		
		Complete the grid: ×100 ÷1000 ×10 365 2669 12 	• True or false? When you multiply whole and decimal numbers by 10, 100 or 1000, you just add noughts on to the end.	 Put these calculations in order from smallest to biggest: 100 x 540 		
		• Fill in the boxes:	• If 5 x 4 = 20	5.4 x 1000		
		× 100 = 38 56 = 5.6	Explain why these facts are true without working them out:	5400 ÷ 10		
S	Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	0.8 x 1000 =	0.5 × 4 = 2 200 ÷ 4 = 50 0.4 × 0.5 = 0.2	5400 ÷ 1000		
ma		 Some facts have been cut up. Work with a partner to put them back together. 		540 ÷ 10		
Deci		100 31 ÷1000 ×100		• Using a number from column A, an operation from B and a number from C, how many ways can you find to make 70? (There are more than 4 ways!)		
		3100		A B C		
		=0.031		7 X 1 70 10		
		÷100		700 ÷ 100		
		31 = 1		7000 1000		



		All students		
	National Curriculum Statement	Fluency	Reasoning	Problem Solving
Multiplication and Division	Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.	 Solve the calculations: 3 4 6 × 2 7 × 3 1 4 Calculate: 5612 × 4 654 × 34 Mo Farah runs 135 miles a week. How far does he run each year? 	 Spot the mistake and make a correction. 527 x 42 10540 2018 12648 Laura thinks that a 4 should be placed in the empty box. Do you agree? 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7 5 212 What goes in the missing box? 12 2 ÷ 6 = 212 14 4 ÷ 7 = 212 Prove your answer. 	 Using the digits 1, 2, 3 and 4 in any order in the bottom row of the number pyramid, how many different totals can you make? What is the smallest/ largest total? Find the missing digits: 5 2 7 7 5 2 7 7 7 8 1 2 7 7 7 8 4 7 7 7



		All students		
	National Curriculum Statement	Fluency	Reasoning	Problem Solving
Multiplication and Division	Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.	 Calculate 68 ÷ 4 = 1248 ÷ 3 = Find the missing numbers: x 5 = 475 3 x = 726 194 pupils are going on a school trip. One adult is needed for every 9 pupils. How many adults are needed? 	 What number goes in the box? 323 x 1 = 13243 Prove it. Correct the errors in the calculation below. Explain the error. 266 ÷ 5 = 73.1 5 2 36 16 Andrew says that the answer to 166 divided by 4 can be written as '46 remainder 2' or as '46.5'. Do you agree? Explain your reasoning. 	 The answer to the division has no remainders. Find the missing numbers. 8 2 7 5 8 9 3 I am thinking of a number. When it is divided by 9, the remainder is 3. When it is divided by 2, the remainder is 1. When it is divided by 5, the remainder is 4. When it is divided by 5, the remainder is 4. What is my number? When 59 is divided by 5, the remainder is 3 When 59 is divided by 3, the remainder is 2 When 59 is divided by 2, the remainder is 1 Can you find the smallest number with the property that when it is divided by each of the numbers 2 to 10, the remainder is always one less than the number it is has been divided by?

