Year 4 Division

Key words: column method, place value, digits, thousands, hundreds, tens, ones, divisor, regrouping, exchanging, times tables.

Resources: Hundred square, multiplications square, place value grid, number line, counters.

- By Year 4, children should be able to divide two-digit and three-digit numbers by a one-digit number using formal written layout.
- The children will calculate answers without remainders and then with remainders.

	Example Division Problems - without remaine	der Solution
WTS	Charlie solves 84 \div 4 like this: One of the solves of the results of the solves of	69 ÷ 3 = 23 69 T Ones 000 000 000
EXS	Macey is working out 72 ÷ 3.	A.I agree
	Before she starts, she says the calculation will involve an exchange. Do you agree? Use APE to explain how you know you are correct.	T ones 000 000 000 000 72 - 3 = 24
		E. I can make 2 groups of 3 out of 7. I have to exchange I ten.
GDS	James thinks that the answer to 872 ÷ 4 is going to be larger than the answer to 976 ÷ 8. Do you agree or disagree? Use APE to show how you know you are corrected a you make your own agree or disagree question related to division for your partner to solve?	10 4 1872 8 1976 I agree because 122 8 1976 T agree because 4 groups is 218,

	Example Division Pro	blems - with remainder	
WTS	remainders. $534 \div 2 =$ $624 \div 3 =$ $758 \div 4 =$	hese calculations will have	H T O 267 21534 208 3624 189 - 2 4 158
	Do you agree?		I disagree because only 758 - 4 has
2,10	Use APE to explain your reasoning.		-a remainder
EXS	Sian has the calculation $85 \div 3 = 28 \text{ r } 1$		28rl 3185
	She says 85 must be multiple of 3	·	384 384
	Do you agree? Use APE to support y	our answer.	I agree. Remainder I means there is I reft over There are 3 groups of 28, but I is reft over. The multiple is 84
	•		There are 3 groups of 28, but I is left over. The
GDS	Always, Sometime	s, Never	080r2 071rl 3 242 5 356
t :		ven three digit number by mber you will always have	037r5 320r2 7264 3962
	Use APE to show how	you know you are correct.	Always.
			Always. I know that I am correct because I have experimented and they all had.
Step 1 Build the number		Step 2 Group the hundreds	Step 3 Group the tens and ones
0000	816 + 4	816 ÷ 4 H T O T O T O T O T O T O T O T O T O T	B16 • 4 H T O O O O O O O O O O O O O O O O O
110	E.		204 4 B ¹ 6