St John the Baptist, Progression in division

	Prerequisite skills		1 John The Baptist, Progressio		
	and knowledge	Visual models and prompts	Grouping - Number lines	More efficient grouping	Chunking, most efficient method
IVISION	Understanding of	4 groups of 2 socks = 8	Grouping:	Stickman method: 80 ÷ 5 =	Chunking: 6\frac{196}{}
	place value	socks	There are 6 biscuits. How many children can have two biscuits each?		- <u>60</u> 6×10
	Counting on and back in multiples of	8 socks shared between 4 people =2		10 10 10 10 10 50	− <u>60</u> 6×10 76
	numbers			5 5 5 5 5 75 1 1 1 1 1 80	- <u>60</u> 6×10 16 - <u>12</u> 6× <u>2</u>
	Division as repeated subtraction.			Count back in 5 groups of 10 Count back in 5 groups of 5	− <u>12</u> 6× <u>2</u> 4 32 Answer: 32 R4
	Use arrays to model divisions and related		Repeated subtraction on a	Count back in 5 groups of 1	So 656÷ 16 = 41
	i.e20/5 = 4, 20/4=5, $5x4=20$ etc.	There are 6 Easter eggs. They	number line:	That is 16 groups of 5 in total. There are none left over, so there is no	16) ⁵ 6 ¹ 56
	Dividing by 0 = 0	are shared between 3 children how many does each child get?	Start at 15 and count back in 3s	remainder. The answer to 80 ÷ 5 = 16	- <u>160</u> -16 × 10 496 - 160 -16 × 10
	Times tables facts		0 3 6 9 12 15	72 ÷ 5 = 14 r2	336 - 160 -16 x 10
	Build up from 2, 5 and 10; then		How many 3s 6 9 12 15 + 3 = 5	72 ÷ 5 = 14 1/2	176 - 160 -16 x 10
	3, 4 and 6; finally 7, 8 and 9		How many 3s in 15?	T T T T RT	016 - 016 -16 x 1
DI	Partitioning of		Repeated subtraction on a	10 10 10 10 10 50 1 1 1 1 1 55	000 41
	numbers		number line, with remainders	1 1 1 1 1 60	Develop by using more efficient
	Begin to relate to		29 ÷ 3 = 9 remainder 2	1 1 1 1 65	chunks Write down 16 times table if
	fractions ½ is dividing by 2, ¼ is		Count back from starting number in groups of 3	1 1 1 1 1 70 1 1 1 72	320 16 x 20 times table if it helps
	dividing by 4			1 1 /2	1 × 16 = 16 2 × 16 = 32
	Understand principle		2 5 8 11 14 17 20 23 26 29 9 groups of 3 and 2 left over	72 ÷ 5	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
	of moving columns when x and ÷ by 10,		29 ÷ 3 = 9 remainder 2	72	Short division: 15 x 16 = 240
	100, 100		72 ÷ 5	-50 (10 x 5)	20 x 16 = 320
	Key vocabulary:		Focus around groups of 5 and knowledge of 5x table	$\frac{22}{20} {(4\times5)}$	81 ÷ 3 =
	Divide, share equally, halve, equal groups		4 x 5 10 x 5	2 remainder 2	27
	of, divided by, divided into,		rem 2		3)8 21
	divisible by, remainder, factor,				Progressing onto Quotient. Remainders as decimals and fractions
	quotient,		0 2 22 72		Transaction and Grant Fractions