

Estimate first	Refine and use efficient methods: ThHTU ÷ U (eg 4123 ÷ 7)	Grouping (expanded) 6)196 - 60 6×10 - 60 6×10 - 76 - 60 6×10 - 60 6×10 - 16 - 12 6×2 Answer: 32R4 Grouping (efficient) 346 + 8 (estimate: 400 + i 8)346 - 320 (8×4) - 320 Answer: 43 R	Use tables fact and place value knowledge to support the fact that: 10 lots of 8 = 80 so, further multiplying 80 by 4	8 6 r2 5 4 3 2	$82 \div 5$ becomes $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	Bar Visualisation 432	Recall quickly ÷ facts up to 12 times table Divide whole numbers by 10, 100, 1000.
†	Use efficient methods: ThHTU ÷ TU (eg 4123 ÷ 27)	Grouping / Chunking (fractional remainder) (decimal) 432 ÷ 15 becomes 2 8 1 5 4 3 2 3 0 0 15×20 1 3 2 1 2 0 0 1 2 300 1 3 0 0 15×80 1 1 2 0 0 15×8 Answer: $28\frac{4}{5}$ Use mental maths knowledge to support the fact that: 10 lots of 15 = 150 so, doubling it = 300 It may be useful to write multiples of 15 to assist.	15 432.0	Short/Compact/ 'Bus-stop' ((fractional 496 ÷ 11 becomes 4 5 r 1 1 1 4 9 6 Answer: 45 \frac{1}{11}	remainder) Support with Base 10 apparatus / deines equipment. iPad app = "number pieces"	Bar Visualisation Larger divisors make the Bar an inefficient visualisation method.	Factors Divide decimals by 1 100, 1000