	Addition	Subtraction	Multiplication	Division
Yr 5	Children should extend the carrying method to numbers with at least 4 digits. **587 + 475 = 1062** (11) **3587 + 675 = 4262** (111) **Extend to add more than 2 numbers** **2345 + 1735 + 721 = 4701** (11) **Bar Model method** **4701** (2345 | 1735 | 721)	**Regrouping** Children who are exchanging answers should start with: **754 - 286** Step 1: 700 + 50 + 4 − 200 + 80 + 6 Step 2: 700 + 40 + 14 (adjust from T to O) − 200 + 80 + 6 Step 3: 600 + 140 + 14 (adjust from H to T) − 200 + 80 + 6 = 400 + 60 + 8 = 668 This would be recorded by the children as 700 + 50 + 4 − 80 + 6 = 600 + 60 + 8 = 668 Decomposition **754 - 286 = 468** - Children should be able to subtract numbers with different numbers of digits, - Begin to find the difference between two decimal fractions with up to 3 digits and the same number of decimal places - Know that decimal points should line up under each other Where the numbers involved in the calculation are close together or near multiples of 10, 100 etc counting on using a number line should be used for a while. **1209 - 388 = 821** 388 400 1200 1209 **Bar model** **1209** (821 | 388)	**Grid method** Short multiplication - multiplication by a single digit 346 X 9 Children will approximate first 346 X 9 is approximately 350 X 10 = 2500 | X	300	40	6 | |---|---|---|---| | 9 | 2700 | 360 | 54 | **2700 + 360 + 54 = 3114** (11) TO X TO Long multiplication - multiplication by more than a single digit 72 X 38 Children will approximate first 72 X 38 is approximately 70 X 40 = 2800 | X	70	2 | |---|---|---| | 30 | 2100 | 60 | | 8 | 560 | 16 | Multiplying decimals - multiplying decimals to one decimal place by a single digit number Use the expanded column method 72 X 38 **72 X 38 = 560 + 2100 + 60 + 16 = 2736**	**Children will continue to use written methods to solve short division HTO ÷ O** **196 ÷ 6** **32 r 4** **6 | 196** **- 180 (30 X 6)** **16** **- 12 (2 X 6)** **4** **Answer: 32 remainder 4 or 32 r 4** Use WIK sheet **1 X 6 = 6** **2 X 6 = 12** **4 X 6 = 24** **5 X 6 = 30** **8 X 6 = 48** **10 X 6 = 60** Children should make sensible decisions about rounding up or down after division especially in the context of word problems. Move on to the short bus stop method. 496 ÷ 11 becomes 4 5 r1 11 | 4 9^{5} 6 *Answer:* $45\frac{1}{11}$ Show remainders as an integer, as a fraction or as a decimal E.g. r 1 1/11 0.09