

Addition

$$245 + 379$$

$$\begin{array}{r} 245 \\ 379 \\ 500 \quad (\text{add the hundreds}) \\ 110 \quad (\text{add the tens}) \\ \underline{14} \quad (\text{add the units}) \\ \hline 624 \quad (\text{add up your results}) \end{array}$$

- ☞ Start with the largest digit first in this example the hundreds.
- ☞ Add the hundreds, then the tens and then the units.
- ☞ Add up your results
 $500 + 110 + 14 = 624$

Subtraction

Subtraction by counting on

$$634 - 278$$

$$\begin{array}{r} 634 \\ -278 \\ \hline \end{array}$$

2 to make 280
20 to make 300
300 to make 600
30 to make 630
4 to make 634

356

- ☞ This method is like counting out change when you buy something.
- ☞ Make the number up to the nearest 10 (280).
- ☞ Then make the number up to the nearest hundred (300).
- ☞ Then make up the hundreds (600).
- ☞ And so on until you have made the number.
- ☞ Add up the numbers to get the answer
 $2 + 20 + 300 + 30 + 4 = 356$
- ☞ Check your answer by adding back.
 $356 + 278 = 634$

Multiplication

Multiplication using a grid

$$24 \times 15$$

x	20	4	
10	200	40	240
5	100	20	120
			<u>360</u>

- ☞ Split the first number into its tens (20) and units (4) and put it across the top.
- ☞ Split the second number into tens (10) and units (5) and put down the side.
- ☞ Multiply each pair from the first row (10 x 20 and 10 x 4) and enter them in the boxes.
- ☞ Multiply each pair from the second row (5 x 20 and 5 x 4) and enter them in the boxes.
- ☞ Add up the results for each row and put it on the right
- ☞ Add up the results $240 + 120 = 360$

Division

Division by repeated subtraction

$$635 \div 4$$

$$\begin{array}{r} 635 \\ -400 \quad \underline{100} \times 4 \quad (\text{Take off 100 groups of 4}) \\ 235 \\ -200 \quad \underline{50} \times 4 \quad (\text{Take off 50 groups of 4}) \\ 35 \\ -32 \quad \underline{8} \times 4 \quad (\text{Take off 8 groups of 4}) \\ 3 \end{array}$$

$$100 + 50 + 8 = 158$$

3 left over is the remainder

- ☞ Start with the largest digit first in this case the 600 of 635
- ☞ Break it down into manageable 'chunks' which you subtract.
- ☞ Use easy multiples first, for example x 100
- ☞ Check it by multiplying it back
 $158 \times 4 = 632$
- ☞ $632 + \text{remainder } 3 = 635$

Answer = 158 r 3