

## Maths - Year 4

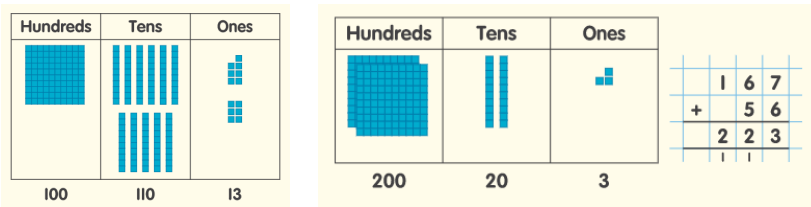
### Calculating 8: Developing fluency with the column method of adding

Key Vocabulary		Mathematical Skills
Rounding	Increasing or decreasing a number or amount to make it closer to (usually) a multiple of ten, or a whole measuring unit, e.g. rounding 353 to 350 or 89 cm to 1 metre.	<ul style="list-style-type: none"> <li>- Group units to make tens, regroup tens to make hundreds and hundreds to make thousands.</li> <li>- Identify from the numbers in a calculation where grouping and regrouping are needed.</li> <li>- Review numbers in a calculation to make a reliable estimate.</li> <li>- Review numbers in a calculation and explain whether or not a column method is the most efficient way to carry out the calculation.</li> <li>- Explain that columns are added from right to left so that we can group and regroup.</li> <li>- Illustrate grouping and regrouping on a hundreds, tens and units place value frame extending to use thousands.</li> <li>- Record the carrying digit in the correct column and refer to this as the given number of tens or hundreds to carry.</li> <li>- Explain the quantity value of each column in column adding.</li> </ul>
Bridging	Partitioning (splitting) the number to be added or subtracted to help with calculating, e.g. $8 + 9 = (8 + 2) + 7 = 17$ .	
Column method	Written method for adding, subtracting, multiplying or dividing in which numbers are written in columns according to their value.	
Partition	Splitting a number in different ways, usually to help with calculating, e.g. 27 can be partitioned into 2 tens (20) and 7 ones (7).	
Carrying	Transferring one digit to another place value column to support calculating.	

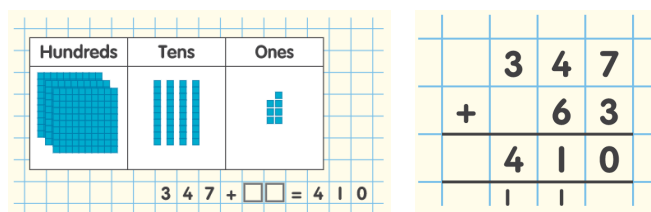
### Mathematical Methods

- Knowing when to use the column method e.g. when crossing a place value column.

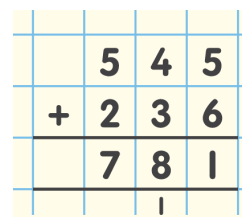
$167 = 56 =$



- Exploring grouping or regrouping in the column method e.g. in empty box problems.



- Adding 3- and 4-digit numbers using the column method e.g.



- A context for adding three 3-digit numbers e.g. the number of sandwiches sold.

Day	Cheese	Ham	Chicken	Egg
Monday	134	124	145	116
Tuesday	126	203	121	192
Wednesday	224	205	235	189
Thursday	212	271	183	269
Friday	123	119	195	137

- Solving measuring problems involving adding.
- Exploring the column method and money.

Item	Small	Medium	Large
Pizza	£5.99	£8.99	£12.99
Pasta	£3.95	£6.95	£8.95
Salad	£2.55	£4.55	£5.55
Garlic bread	£1.95	£2.95	£3.95
Soft drink	£1.25	£2.25	£3.25
Coffee	£2.15	£2.50	£3.45

$$\begin{array}{r}
 5.99 \\
 + 4.55 \\
 \hline
 10.54
 \end{array}$$

### Can you..?

- How many customers visited each shop over the weekend?

Number of visitors to each shop over the weekend

	Bakery	Supermarket	Book shop	Toy shop	Newsagents
Saturday	299	845	325	389	451
Sunday	299	967	150	376	35
Total	?	?	?	?	?

- Ravi is scoring 347 in a computer game. His best score is 750. How many more points does he need to score to equal his best?
- A comic costs 99p and a notepad costs £1.25. How much would it cost to buy 2 comics and 1 notepad?