

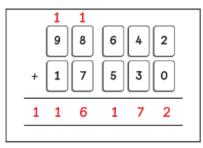
Year 6

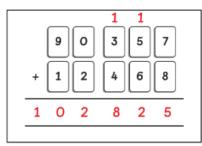
# Maths

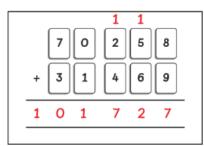
# **Addition**

National Curriculum expectations are that children in Year 6 are confident with the use of formal written methods for addition. Children need to be able to solve addition multi-step problems in contexts. Children will continue to use and develop their mental strategies for addition with increasingly large numbers.

Here are examples of the addition formal written methods.

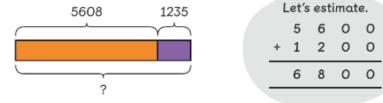






Encourage the children to estimate their answers before answering the question. They will apply their knowledge to problems like the one below.

5608 tickets for a charity concert were sold before the day of the concert. On the day of the concert, another 1235 tickets were sold.



How can we find the total number of concert tickets sold?

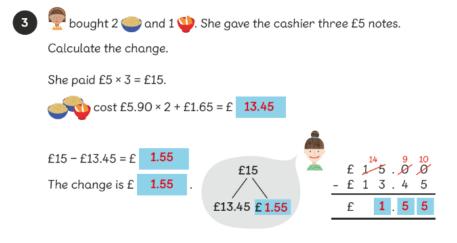
## **Subtraction**

National Curriculum expectations are that children in Year 6 are confident with the use of formal written methods for subtraction. Children need to be able to solve subtraction multi-step problems in contexts. Children will continue to use and develop their mental strategies for subtraction with increasingly large numbers.

Here are examples of the subtraction formal written methods.

1 Subtract.	62 789
(a) 62 789 - 41 321 = <b>21 468</b>	- 41 <mark>321</mark>
	21468
(b) 62 987 - 14 123 = <b>48 864</b>	5 12 6 2 9 8 7 - 1 4 1 2 3
	48864
2 Find the difference.	10 11 5 1/ 1/2 10
246 120 - 120 246 = <b>125 874</b>	24 <b>6 120</b> -120 246
1 1 2 0 - 2 4 6 8 7 4	125 874
3 Find the value of 309 172 - 75 913.	2 <sup>10</sup> 8 11 6 12 309 172 - 75 91 3
Check by estimating.	-75913 233259

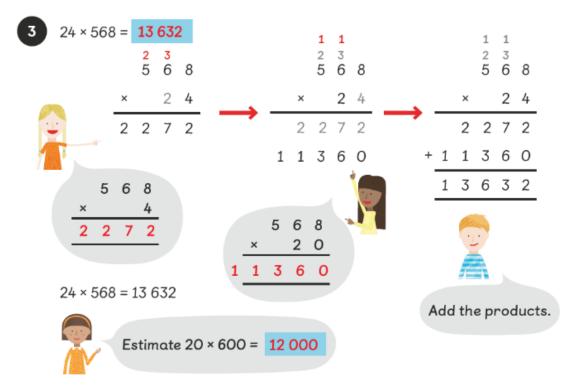
Encourage the children to estimate their answers before answering the question. They will apply their knowledge to problems like the one below.



# **Multiplication**

National Curriculum expectations are that children in Year 6 can multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication. Children need to be able to solve multiplication multi-step problems in contexts. Children will continue to use and develop their mental strategies for multiplication with increasingly large numbers.

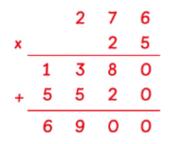
Here are examples of the multiplication formal written methods.



Children will apply their knowledge to problems like these:



The number of students in a high school is 25 times the number of students in a reception class. The reception class has 276 students. How many students are there in the high school?

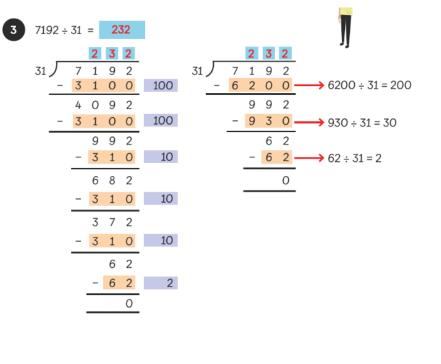


There are 6900 students in the high school.

### <u>Division</u>

National Curriculum expectations are that children in Year 6 divide numbers up to 4 digits by a twodigit whole number using the formal written method of long division, and divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context

Here are examples of the division formal written methods.



Children will use their partial tables to support their working out of long division questions. For example, the partial tables for the 31 times table:  $1 \times 31 = 31$  $2 \times 31 = 62$  $5 \times 31 = 155$  $10 \times 31 = 310$  $20 \times 31 = 620$  $50 \times 31 = 1550$  $100 \times 31 = 3100$ 

Children will apply their knowledge to problems like these:

Amira packs 1456 beads into small bags of 14 beads each. How many bags of beads does she get?

