

Lesson 2- Consolidation

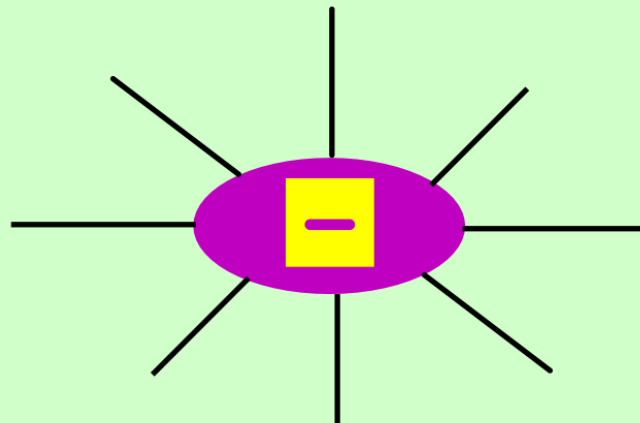
Subtraction using the column method

This week we will be consolidating the methods we use for the 4 operations (addition, subtraction, multiplication and division).

In today's work, you will focus on subtraction.

Starter

How many words do you know that mean the same as **subtraction**?



Let's have a look at our school's calculation policy on subtraction- This is how we should be setting it out.

Formal written compact method (without having to regroup)

$$4\,757\,896 - 1\,325\,156 =$$

$$\begin{array}{r} 4\,757\,896 \\ - 1\,325\,156 \\ \hline 3\,432\,740 \end{array}$$

Formal written compact method (with regrouping)

$$4\,127\,826 - 1\,325\,156 =$$

$$\begin{array}{r} \overset{3}{4}\overset{1}{1}27\overset{7}{8}26 \\ - 1\,325\,156 \\ \hline 2\,802\,670 \end{array}$$

Steps to success

1. Make sure you put the larger number on top.
2. Column by column subtract.
3. If the top number is smaller than the bottom number- you will need to regroup.
4. Remember that you can only regroup from the number next door.

Answer the following questions. Make sure you read the questions carefully as sometimes you will be required to answer some question on addition as well as subtraction.

Task 1

- 1) $423963 - 56784 =$
- 2) $400020 - 50649 =$
- 3) $60000 - 956 =$
- 4) $9010060 - 8497 =$
- 5) $341.06 - 84.5 =$
- 6) $6835.24 - 945.671 =$

Task 2

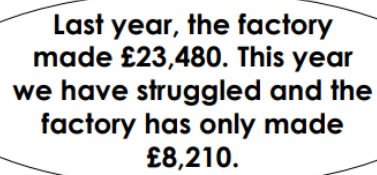


Welcome to The Sweet Factory! Sammy is going to give you a tour of the magnificent factory.

Before you enter the factory, Sammy needs you to calculate how many sweets have been made. The factory has been running for four years. Below is a table showing how many of each type of sweet was made in each year the factory has been open.

	Raspberry ZigZags	Strawberry Whirls	Chocolate Swirls	Hazelnut Chewies
Year 1	5,681	4,612	7,384	1,823
Year 2	11,274	9,381	8,133	15,730
Year 3	25,252	28,736	27,632	22,527
Year 4	35,581	46,935	44,194	37,659

Sammy says:



A cartoon illustration of a mobile robot. It has a green and grey body with a central screen displaying blue wavy lines. The robot has two large black wheels, a smaller front wheel, and various sensors and antennas on top. It is emitting smoke from its rear and has a red light on its side.



Task 4

Next up, the Melting room! This room is the home of the magnificent melting machine which is full of gooey chocolate. The machine melts hundreds of bars of chocolate each day.



On Mondays, the machine makes 15,682ml of melted chocolate.

On Tuesdays, the machine makes 12,532ml of melted chocolate.

True or False?

4a. $15,682\text{ml} + 12,532\text{ml}$ gives the same answer as $15,682\text{ml} - 12,532\text{ml}$.

4b. $15,682\text{ml} - 12,532\text{ml}$ gives a different answer to $12,532\text{ml} + 15,682\text{ml}$.

Explain your answer.

Task 5

You've now come to the end of the tour, but there is one more task Sammy needs you to complete. His step-counting watch has broken and he wants to know how many footsteps you have both done whilst walking around the factory.

The table shows the amount of footsteps you and Sammy have taken in different parts of the factory.

	Entering the factory	Reception	Bubblegum room	Melting room	Candy room
You	1,294	2,521	52,573	3,863	42,485
Sammy	1,376	2,650	51,129	3,872	43,763

6. Calculate who walked the most steps overall.

6a. Who walked the most steps?

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6b. What is the difference between the amount of steps you walked and the amount of steps Sammy walked?