

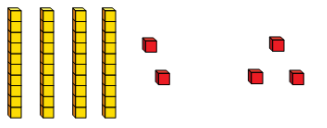

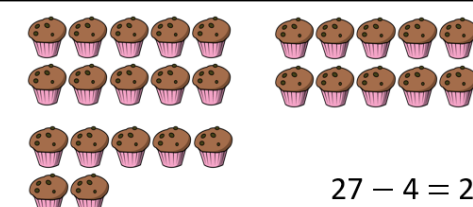
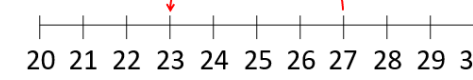
Maths Task

Below the Top Tips are 3 separate tasks:

- Task 1 focuses on the fluency of addition and subtraction using the formal written methods (column addition and column subtraction.) However, if you prefer to draw or build your calculations you can. Remember to set your calculations out clearly and as a challenge use the inverse (+ or-) to check your answers.
- Task 2 focuses on problem solving. Highlight the **key information** in the questions to identify what operation (subtraction or addition) you need to use to calculate the answer.
- Task 3 focuses on reasoning. When answering these questions, you will need to **explain and justify your answer** using workings out and examples to support you.

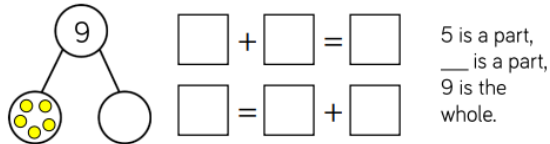
At the end of each task, ask someone at home to check your calculations. Remember if you get one wrong, take the challenge of finding your own mistake and try it again in a green pen.

Top Tips:

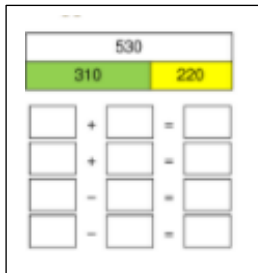
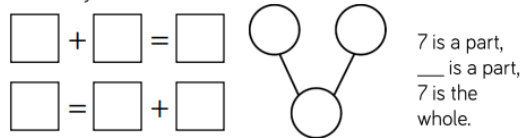
<p>Work out $42 + 3$</p> <p style="text-align: right;">$2 + 3 = 5$ $42 + 3 = 45$</p>   <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> $\begin{array}{r} 38 \\ 93 \\ \hline 131 \\ \hline 1 \end{array}$ </div>	<p><u>Column Addition</u></p> <p>Start with the ones.</p> <p>Add the numbers in the one's column.</p> <p>If the answer is 10 or above carry the ten into the next column.</p> <p>Move your way along the columns and <u>don't forget to count the numbers that you have carried over!</u></p> <p>Check your answers.</p>	<p><u>Addition</u></p> <p>Add</p> <p>Addition</p> <p>Total</p> <p>Plus</p> <p>Sum of</p> <p>Combined</p>	<p><u>Column Subtraction</u></p> <p>Start with the ones.</p> <p>Subtract the numbers in the one's column.</p> <p>If the number on top is smaller than the bottom number you need to take from the next column.</p> <p>Don't forget to <u>cross out the number in the column you have taken from and subtract one from it.</u></p> <p>Keep going in this way- see example</p> <p>Check your answer.</p>	 <p style="text-align: right;">$27 - 4 = 23$</p>  <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> $\begin{array}{r} 6712 \\ 56 \\ \hline 16 \end{array}$ </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>More on the floor take from next door, more on top, go don't stop.</p> </div>
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Task 1 – Fluency

Complete the part-whole model and use it to fill in the number sentences.



There are seven cars in total. Seven of them are green. How many of them are yellow?



Above are three - part whole models, have a go at making you own and writing the calculations that go with them. Challenge yourselves by using 2/ 3-digit numbers when you're ready 😊 You can use either method.

There are 3 aeroplanes at the airport.
 5 more aeroplanes land.
 How many aeroplanes are there now?



Now there are ___ aeroplanes altogether.

How could we represent this as a number sentence?

Using the mathematical vocabulary (in the Top Tips section above) create your own **addition** and **subtraction** number sentences. You can draw these if you need to and then write your sentences beneath. However you decide, make sure that you show your workings. Below are some calculations to add into number sentences if you prefer.

$$23 + 16 =$$

$$617 + 124 =$$

$$325 + 99 =$$

$$87 - 13 =$$

$$124 - 56 =$$

$$415 - 129 =$$

Practise adding and subtracting the numbers below. You could work with someone at home. Your partner could write the calculation as a column addition or subtraction and you could model the calculation using drawings or apparatus. Check your answers and if one of you make a mistake find it and try again.

$$145 + 128 =$$

$$\underline{\quad} = 237 + 456$$

$$279\text{km} + 149\text{km} =$$

$$\underline{\quad} = 546 + 365$$

$$163 - 113 =$$

$$282 - 165 =$$

$$224 - \underline{\quad} = 105$$

$$336 - \underline{\quad} = 108$$

Extra challenge - check your answers by using the inverse.

Task 2 – Problem Solving

Which is the odd one out? Why?

$$336 + 80$$

$$453 + 60$$

$$347 + 70$$

$$285 + 80$$

Spot the Mistake



589 – 70 is equal to 582

Amir

What should the answer be?

Teddy starts with the number 356
He adds a multiple of 100
His new number is greater than 500 but
less than 800
Complete the table.

Numbers he couldn't have added	Numbers he could have added

What mistakes have been made in these column subtractions?

$$\begin{array}{r} 357 \\ - 29 \\ \hline 332 \end{array}$$

$$\begin{array}{r} 4 \quad 1 \quad 1 \\ 3 \quad 0 \quad 2 \\ - 35 \\ \hline 477 \end{array}$$

Whitney has 125 stickers.

She gives less than 10 stickers to Eva.

She has an odd number of stickers left.

How many stickers might Whitney have given away?

A film is shown 3 times in a day.

The table shows how many children watch each showing.

Showing time	11 am	3 pm	7 pm
Number of children	462	295	78

How many more children watch the 11 am showing than the 7 pm showing?

Task 3 - Reasoning

The table shows the number of boys and girls in two schools.

	Boys	Girls
School A	224	305
School B	400	

A) The total number of children in each school is equal.

Without working it out, which school has more girls?

How do you know?

B) How many girls are there in school B?

Show your workings and explain to someone at home how you worked it out.

A bottle is full of 813 ml of orange juice.

A glass has a capacity of 495 ml.

813 ml - Can you pour two full glasses of juice?

Give an estimate.

Explain your answer.

A barrel contains 175 litres of water.



2 buckets of water are poured into the barrel.



There is now 265 litres of water in the barrel.

How much water could have been in each bucket?

How many different answers can you find?

Explain how you know that you have all of the possible answers.

Start with the number 888

Roll a 1-6 die three times, to make a 3-digit number.

Subtract the number from 888

What number have you got now?

What's the smallest possible difference?

What's the largest possible difference?

What if all the digits have to be different?

Will you ever find a difference that is a multiple of 10? Why?

Do you have more odd or even differences?



When you add a 3-digit and a 1-digit number together, only the ones digit in the 3-digit number will change.

Is Whitney correct?

Explain your answer.