

Year 3 Maths

Addition and Subtraction

Learning From Home Activity Booklet

Statutory Requirements	Activity Sheet	Page Number	Notes
<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> • add and subtract numbers mentally, including: a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds; • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction; • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction. 	Sunflowers	2	
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Sunflowers



Amira has been growing sunflowers in her back garden. She recorded the heights of her sunflowers on Monday. By Friday, each sunflower had grown several centimetres. **Calculate the new height of each sunflower on Friday.**



Recorded height:	122cm
Amount grown:	7cm
New height:	



Recorded height:	116cm
Amount grown:	7cm
New height:	



Recorded height:	164cm
Amount grown:	5cm
New height:	



Recorded height:	155cm
Amount grown:	6cm
New height:	



Recorded height:	137cm
Amount grown:	9cm
New height:	



Recorded height:	198cm
Amount grown:	7cm
New height:	



Recorded height:	123cm
Amount grown:	7cm
New height:	



Recorded height:	192cm
Amount grown:	9cm
New height:	



Recorded height:	173cm
Amount grown:	8cm
New height:	

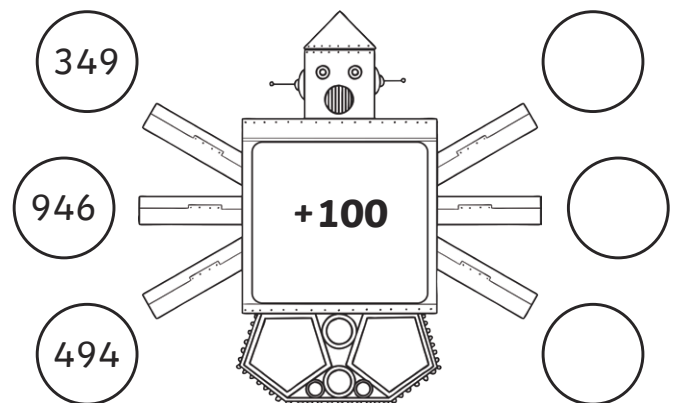
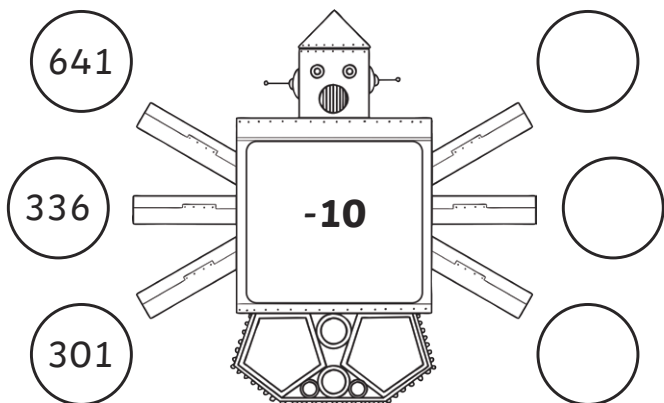
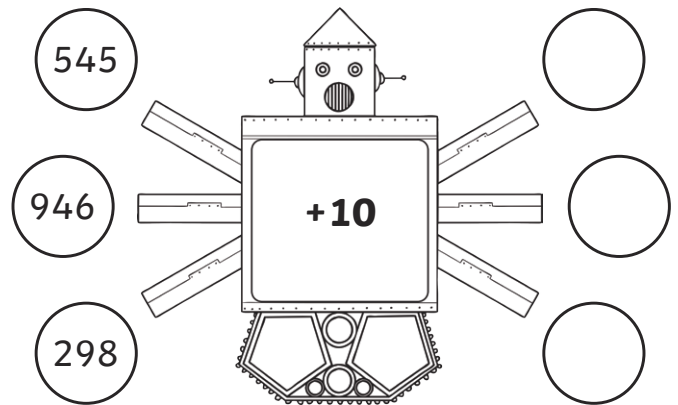
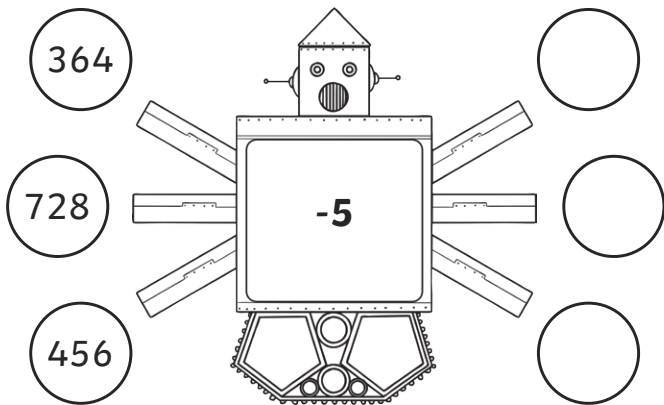
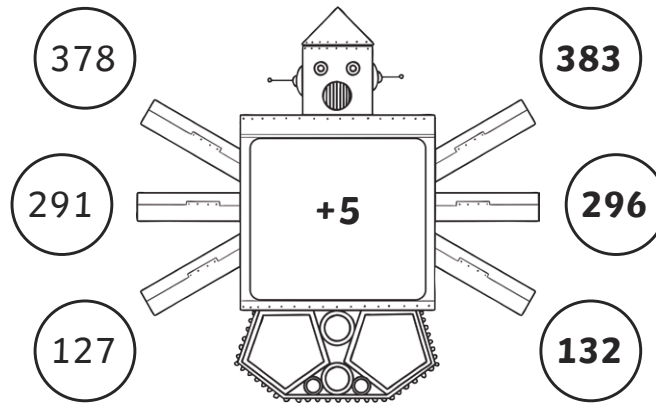


Recorded height:	298cm
Amount grown:	9cm
New height:	

Tip: If you need help, use the 100 square at the back of this booklet to help you add by counting on.

Maths Machines

Below are some maths machines. Each machine has a specific calculation that it does to each number that goes through the machine. Complete the calculations on each machine and then write the answer on the other side. The first has been done for you.



Challenge: Create your own maths machine by writing a three-digit number to go through each arm of the machine.

Mark's Homework



Mark has been set the following calculations to complete by his teacher. However, he is struggling to solve the calculations. Help Mark by completing each of the column additions below.

without regrouping

$$\begin{array}{r} 273 \\ + 514 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 451 \\ + 225 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 304 \\ + 463 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 615 \\ + 172 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 153 \\ + 716 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 805 \\ + 102 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 572 \\ + 213 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 531 \\ + 267 \\ \hline \\ \hline \end{array}$$

with regrouping

$$\begin{array}{r} 323 \\ + 518 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 607 \\ + 228 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 507 \\ + 463 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 319 \\ + 142 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 257 \\ + 706 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 505 \\ + 109 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 672 \\ + 243 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 591 \\ + 367 \\ \hline \\ \hline \end{array}$$

The Bakery

Here are the statistics for the number of muffins made in a bakery during one week.

Day of the week	Number of chocolate chip muffins	Number of blueberry muffins
Monday	324	236
Tuesday	721	349
Wednesday	426	681
Thursday	438	624
Friday	724	234

Use the statistics to answer the questions below.
Complete your working out in the boxes provided.



1. How many muffins were made altogether on Monday?

2. How many blueberry muffins were made altogether on Monday and Tuesday?

3. There were more muffins produced on Thursday than Wednesday. Is this correct?

4. How many chocolate muffins were made altogether on Wednesday and Thursday?

Challenge: Write your own addition problem about the data and try to solve it below.
Show your working out.

Column Subtraction

Use column subtraction to complete these calculations. Remember to always subtract the number on the bottom from the top number. If the digit above is smaller than the bottom number, you need to **exchange**.

Column subtraction without exchanging

$$\begin{array}{r} 569 \\ - 315 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 346 \\ - 125 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 774 \\ - 453 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 652 \\ - 420 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 628 \\ - 305 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 573 \\ - 512 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 832 \\ - 232 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 599 \\ - 467 \\ \hline \\ \hline \end{array}$$

Column subtraction with exchanging

$$\begin{array}{r} 451 \\ - 218 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 840 \\ - 525 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 472 \\ - 238 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 481 \\ - 323 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 690 \\ - 526 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 726 \\ - 419 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 427 \\ - 233 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 519 \\ - 450 \\ \hline \\ \hline \end{array}$$

Problem Solving

Use your knowledge of addition and subtraction to solve the problems below.

Use the space in the boxes to complete your working out.

1. A school sells 242 tickets for a play. Then, on the night of the play, another 123 tickets were sold. **How many tickets were sold altogether?**

2. I think of a number. I add 62 and then subtract 124. My answer is 358. **What number did I start with?**

3. Sam says that $248 + 156 = 404$.

Fill in the boxes below to show a subtraction calculation to check that Sam is correct.

$$\boxed{} - \boxed{} = \boxed{156}$$

4. Gemma has collected 567 pennies. Her grandmother then gives her another 249 pennies. **How many pennies does she have now?**

Hundred Square

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Parent Guide to Addition and Subtraction

In the Year 3 National Curriculum, children are taught to use **column addition** and **column subtraction** to add and subtract three-digit numbers. The focus of the curriculum is that children will become 'masters' of this method and should be able to apply this method to a range of problems and situations. Therefore, the range of activities in this booklet will help your child develop their **fluency**, **reasoning** and **problem solving** when using **column addition** and **column subtraction**.

The column method

The column method of addition and subtraction is so called because it sets the numbers out into columns based on their place value, e.g. **hundreds**, **tens** and **ones**. (**Note:** If your child isn't secure with place value, it is best to go over this before using column addition and subtraction.) To begin this method, we always start by adding the numbers in the right column and then work along to the left, adding or subtracting the numbers in that column.

When using column subtraction, the **largest number** is always placed above the **smaller number**. Also, you must always subtract the digit below from the number above; this is sometimes a common misconception with children as they sometimes just calculate the difference between the two numbers.

$$\begin{array}{r}
 5 \quad 6 \quad 8 \\
 + \quad 2 \quad 5 \quad 1 \\
 \hline
 8 \quad 1 \quad 9 \\
 \hline
 1
 \end{array}$$

$$\begin{array}{r}
 6 \quad \cancel{7}^1 \quad 8 \\
 - \quad 2 \quad 7 \quad 4 \\
 \hline
 3 \quad 5 \quad 4 \\
 \hline
 \end{array}$$

Borrowing vs Exchanging: During school, you were probably taught to 'borrow' from the next column if you couldn't subtract the bottom number from the top number in a column. However, the current term used is **exchanging** for this procedure. Ask your child the terminology used by the teacher to ensure you are consistent with what is taught in their classroom.

For a fully detailed explanation of column addition and subtraction, please use the following resources on the Twinkl website:

[Year 3 Addition and Subtraction Lesson 3b Adding 3 and 3 Digit Numbers Without Carrying PowerPoint](#)

[Year 3 Addition and Subtraction Lesson 4d Subtracting 3 Digit Numbers from 3 Digit Numbers PowerPoint](#)