

Year 5 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 whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction); • use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy; • solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. 	Vlogging Numbers	2	
	Mortgage Money	3	
	The Biscuit Factory	4-5	
	Kiwi Phones	6	
	Wonderland	7	
	Wonderland 2	8-9	
	Master Mathematician	10-11	
	Parent Guide to Addition and Subtraction	12	

Vlogging Numbers



Veronica Logston is a famous celebrity vlogger. She has made video blogs about all her favourite history topics and posted them on line over the weekend. They have been extremely popular, but she wishes to find out which vlog was the most popular. To find out which vlog was the most popular, add the number of views each vlog received on Saturday and Sunday.

1 The Vikings

$$\begin{array}{r} 7 \ 5 \ 2 \ 4 \ 8 \\ + 1 \ 8 \ 3 \ 9 \ 1 \\ \hline \end{array}$$

2 The Ancient Egyptians

$$\begin{array}{r} 3 \ 5 \ 2 \ 9 \ 2 \\ + 9 \ 4 \ 6 \ 3 \ 7 \\ \hline \end{array}$$

3 The Ancient Romans

$$\begin{array}{r} 8 \ 3 \ 5 \ 4 \ 6 \\ + 1 \ 4 \ 1 \ 8 \ 2 \\ \hline \end{array}$$

4 The Ancient Greeks

$$\begin{array}{r} 7 \ 1 \ 4 \ 0 \ 1 \\ + 8 \ 5 \ 2 \ 3 \ 2 \\ \hline \end{array}$$

5 The Anglo Saxons

$$\begin{array}{r} 7 \ 3 \ 4 \ 7 \ 1 \\ + 6 \ 4 \ 3 \ 4 \ 2 \\ \hline \end{array}$$

6 The Stone Age

$$\begin{array}{r} 9 \ 1 \ 8 \ 7 \ 9 \\ + 5 \ 8 \ 8 \ 1 \ 6 \\ \hline \end{array}$$

7 The Victorians

$$\begin{array}{r} 2 \ 9 \ 3 \ 1 \ 4 \\ + 1 \ 3 \ 0 \ 2 \ 3 \\ \hline \end{array}$$

8 The Aztecs

$$\begin{array}{r} 2 \ 8 \ 1 \ 6 \ 7 \\ + 3 \ 5 \ 4 \ 7 \ 2 \\ \hline \end{array}$$

**9 The Shang Dynasty
(Ancient China)**

$$\begin{array}{r} 8 \ 2 \ 5 \ 7 \ 2 \\ + 5 \ 3 \ 3 \ 4 \ 6 \\ \hline \end{array}$$

The most popular vlog was:

Mortgage Money



The following families are trying to work out how much money they have left to pay on their mortgage for their houses. To calculate how much is remaining, subtract the amount each family has paid so far from the original price that they paid for their house.

The Browns

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 8 \ 3 \ 6 \ 9 \ 1 \\ \text{Money paid so far:} \quad - \quad \text{£ } 4 \ 1 \ 0 \ 4 \ 5 \\ \hline \text{£} \end{array}$$

The Carrascos

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 5 \ 0 \ 6 \ 4 \ 8 \\ \text{Money paid so far:} \quad - \quad \text{£ } 3 \ 7 \ 1 \ 4 \ 2 \\ \hline \text{£} \end{array}$$

The Woods

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 5 \ 7 \ 8 \ 2 \ 3 \\ \text{Money paid so far:} \quad - \quad \text{£ } 3 \ 6 \ 1 \ 7 \ 9 \\ \hline \text{£} \end{array}$$

The Levocats

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 9 \ 6 \ 7 \ 2 \ 4 \\ \text{Money paid so far:} \quad - \quad \text{£ } 6 \ 8 \ 1 \ 5 \ 3 \\ \hline \text{£} \end{array}$$

The Barlows

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 8 \ 1 \ 6 \ 5 \ 3 \\ \text{Money paid so far:} \quad - \quad \text{£ } 2 \ 5 \ 3 \ 1 \ 7 \\ \hline \text{£} \end{array}$$

The Patels

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 6 \ 9 \ 3 \ 6 \ 6 \\ \text{Money paid so far:} \quad - \quad \text{£ } 1 \ 6 \ 7 \ 2 \ 5 \\ \hline \text{£} \end{array}$$

The Smiths

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 8 \ 9 \ 1 \ 5 \ 6 \\ \text{Money paid so far:} \quad - \quad \text{£ } 5 \ 8 \ 4 \ 2 \ 9 \\ \hline \text{£} \end{array}$$

The Ostapskis

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 7 \ 0 \ 5 \ 2 \ 9 \\ \text{Money paid so far:} \quad - \quad \text{£ } 4 \ 5 \ 2 \ 8 \ 3 \\ \hline \text{£} \end{array}$$

The Whites

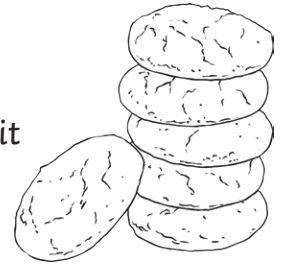
$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 5 \ 7 \ 5 \ 9 \ 9 \\ \text{Money paid so far:} \quad - \quad \text{£ } 2 \ 8 \ 3 \ 7 \ 5 \\ \hline \text{£} \end{array}$$

The Renshaws

$$\begin{array}{r} \text{Cost of house:} \quad \text{£ } 7 \ 9 \ 0 \ 3 \ 5 \\ \text{Money paid so far:} \quad - \quad \text{£ } 4 \ 6 \ 2 \ 7 \ 1 \\ \hline \text{£} \end{array}$$

Which family has the most left to pay on their mortgage? _____

The Biscuit Factory



Look at the data for the amount of biscuits made each week in a biscuit factory. Use the statistics to answer the questions below. Complete your working out in the boxes provided.

Day of the week	Number of plain biscuits made	Number of chocolate biscuits made
Monday	29 645	51 766
Tuesday	41 997	84 363
Wednesday	33 207	53 201
Thursday	32 195	23 758
Friday	80 599	68 271
Saturday	27 725	97 653
Sunday	98 257	26 469

How many biscuits were made altogether on Monday?

On which day of the weekend were the most biscuits made? Saturday or Sunday?

On Monday, how many more chocolate biscuits were made than plain biscuits?

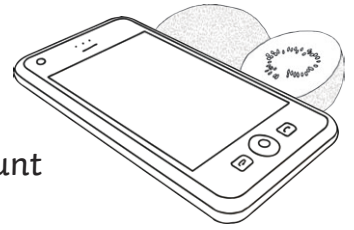
What is the difference between the number of plain biscuits made on Wednesday and the number of plain biscuits made on Thursday?

Look at the data for Thursday and Friday. Which of these days has the largest difference between the number of plain and chocolate biscuits made?



Kiwi Phones

The mobile phone company, Kiwi, has just released its latest mobile... the jphone 8. Kiwi has released the phone in two different sizes: the jphone 8 and the jphone 8 supersize. Below are the statistics for the amount of phones sold in the first week of release.



Day of the week	jphone 8	jphone 8 supersize
Monday	64 166	64 952
Tuesday	64 913	16 762
Wednesday	13 346	97 831
Thursday	47 943	16 485
Friday	14 697	23 482
Saturday	36 756	23 146
Sunday	69 743	64 397

Task: Using the statistics above, write and solve your own addition word problems in the spaces provided. You could even test your family and friends to see if they can answer your questions.

1. _____

2. _____

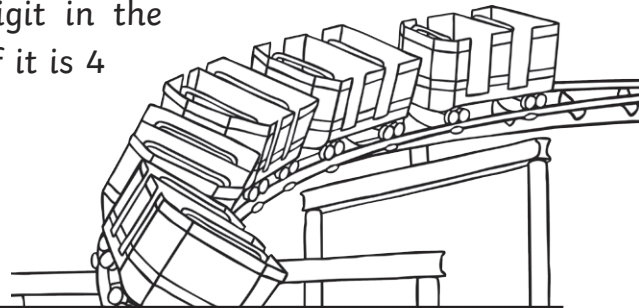
Wonderland

The Head Chef at the theme park 'Wonderland' has been asked to order supplies for food and drink next month. He needs to ensure that the theme park has enough food and drink to feed all their customers in the month of August. Round the figures for July to the nearest 10 000 to give an indication of how many he will need to order in August.

For example: 146 684 rounded to the nearest 10 000 is **150 000**.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1	4	6	6	8	4

Hint: Find the Ten Thousands column. Look at the digit in the Thousands column. If it is 5 or more, you **round up** or if it is 4 or below you **round down**.



Food and drink items	Number sold in July	Estimate for August
Sausages	164 562	
Burgers	236 461	
Lollipops	486 482	
Cheese Sandwiches	461 955	
Bottles of lemonade	764 169	
Tea bags	846 562	
Cakes	861 461	
Bags of crisps	354 495	
Ice lollies	429 344	
Meat pies	137 465	

Wonderland 2

The owner of Wonderland, Maximillian McMoney, is visiting the park. He is estimating how much money the park has made each day that the park has been open. To do this, he must round the figures to the nearest ten thousand. Then he subtracts the cost of running the park from the amount of money made on tickets each day. For example:

Monday	Rounded to the nearest ten thousand
Money from tickets sold: £864 482	£860 000
Cost of running the park: £235 745	£240 000
	Estimate: £620 000

Task: Circle the correct estimate for each calculation that Maximilian has estimated. Write your rounded numbers below the numbers in the calculation.

Tuesday

$$£495\ 468 - £174\ 792 =$$

230 000

330 000

430 000

Wednesday

$$£843\ 468 - £354\ 592 =$$

490 000

480 000

470 000

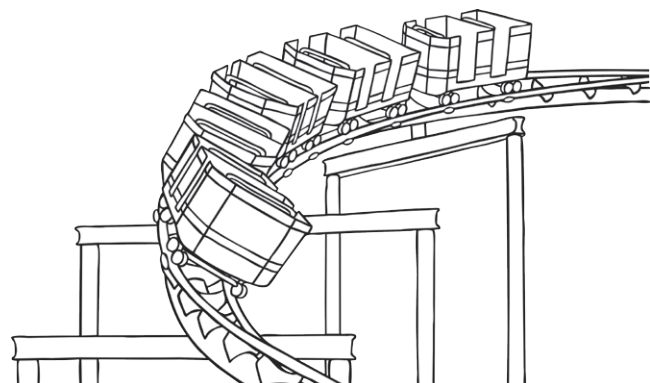
Thursday

$$£657\ 384 - £423\ 551 =$$

250 000

230 000

240 000



Friday

$$£465\ 561 - £217\ 641 =$$

230 000

250 000

220 000

Saturday

$$£978\ 466 - £358\ 941 =$$

620 000

610 000

630 000

Sunday

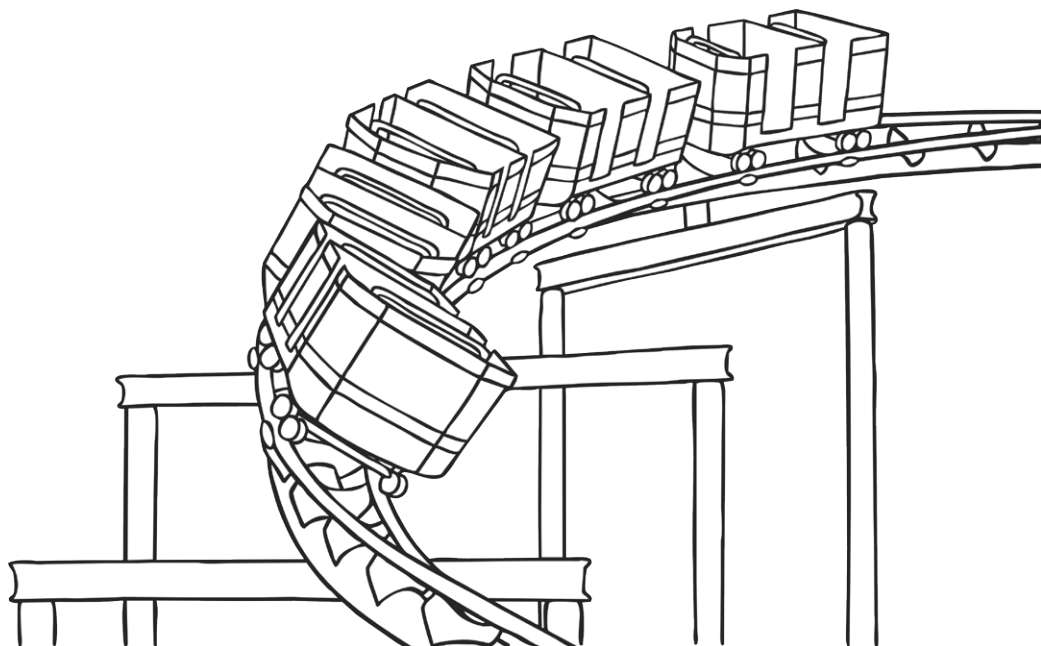
$$£892\ 549 - £527\ 946 =$$

260 000

160 000

360 000

Based on the estimates, on which day was the most money made?

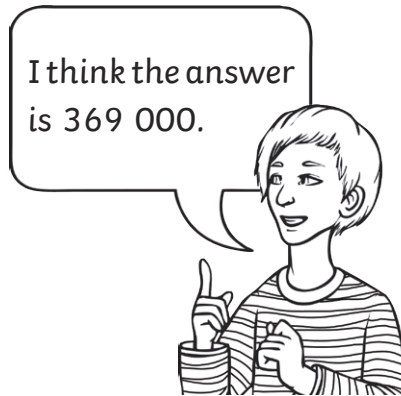
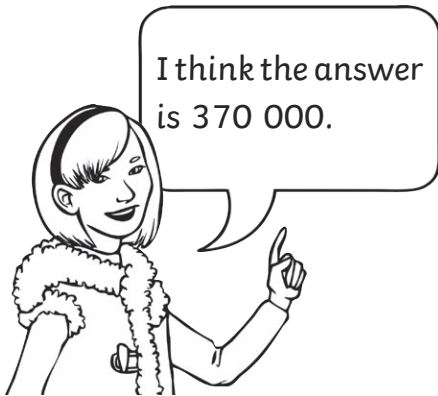


Master Mathematician



Use your knowledge of rounding, estimating and column addition and subtraction to solve the following problems. Some may even ask you to demonstrate your reasoning by explaining how you solved the problem or knew the right answer.

1. Romina and Lucas are discussing a question.

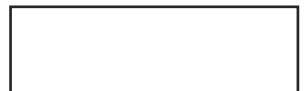


What is 368 846 rounded to the nearest 10 000?

Explain who is correct and how you know.

2. Daniel is out shopping. He has £536.87. He spends £247.56 on a new laptop and £172.26 on a present for his mum. How much money does he have left remaining after buying the gifts?

Use this space for your working out.



3. Set out and solve these calculations using a column method of addition or subtraction.

$$3254 + \boxed{} = 7999$$

$$2431 = \boxed{} - 3356$$

$$6373 - \boxed{} = 3518$$

$$6719 = \boxed{} - 4625$$

Use this space for your working out.

4. Mr and Mrs Woods both need a new car. They have gone to the car show room with £25 496 to spend. Mr Woods buys a car for £12 964 and Mrs Woods buys a car for £9462. How much money do they have remaining?

Use this space for your working out.

Parent Guide to Addition and Subtraction

In the Year 5 National Curriculum, children are taught to use **column addition** and **column subtraction** to add and subtract numbers with more than four digits. 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 book will help your child develop their **fluency, reasoning** and **problem solving** when using **column addition** and **column subtraction**.

The Column Method

For a full explanation of the column methods of addition and subtraction, please see the parents section of the **'Year 4 Maths: Addition and Subtraction' working from home booklet.**

You can also refer to 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](#)

Estimation: Children are encouraged to estimate their answers mentally before completing column additions and subtractions. They can do this by rounding the numbers to the nearest **thousand** (if using a four-digit number) or **ten thousand** (if using a five-digit number) and then adding or subtracting the rounded numbers. This helps the child as it gives them an indication of what the answer should be. For example:

$$38\,490 + 47\,616 \text{ Rounded is: } 40\,000 + 50\,000 = 90\,000$$

Please ensure your child is secure with rounding before encouraging him or her to estimate the answers.