

### Code Breaker

Use the code breaker sheet to find out the answers using your place value knowledge.

Place Value Codebreaker

A	B	C	D	E	F	G	H	I	J	K	L	M
5 hundreds	-	-	5 hundred thousands	5 units	5 ten thousands	5 ten millions	5	-	5 ten millions	-	5 ten thousands	5 ten thousands
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
5	5	5 hundred thousands	5 billion	5 hundredths	5 ten	5 ten	-	-	-	-	5	-
152	5000000	7325	45213	35792030	63520							
6560772	77501	56600037	60504.2	7450236	878.533							
0.065	4351.668	436.593	502.864	362.052	912452.791							

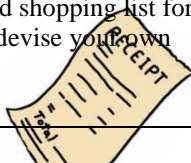
Look at the numbers below where you are required to state in which place value the 5 is, link your answers to the table above to reveal why the musicians had crumbs on their shoes:

### Description

Go food shopping with your family and find out:

- The total cost
- The difference between the most expensive item
- How much did the food shop cost each family member
- How much would the food shop cost for a week? Month? A year?

Create your own food shopping list for a family member and devise your own questions.



### Addition and subtraction challenge cards

Look at the addition and subtraction challenge cards. You may need to do more than one operation. Look at the vocabulary to help you work the calculations out.

**Addition and Subtraction Problems**

George read three books in January, which had 173 pages, 206 pages and 139 pages.

He has some books to read in February. Two books have 287 pages and 114 pages. How many more pages must he read to read more pages in February than in January?

Draw a diagram, such as a bar model, to explain how to calculate the answer, and then solve the problem.

Explain your ideas to a partner.

### Mathletics

Log onto Mathletics and have a go at the course called 'Rounding Numbers'.



### The Deca Tree

Have a go at the Deca tree questions. You may need time to think at each step.

**The Deca Tree**

The deca tree has 10 trunks.

On each trunk there are 10 branches.

On each branch there are 10 twigs.

On each twig there are 10 leaves.

One day a woodcutter came along and cut down one trunk from the tree.

Then he cut off one branch from another trunk of the tree.

He then cut off one twig from another branch.

Finally he pulled one leaf from another twig.

How many leaves were left on the tree?

### Mathletics

Log onto Mathletics and have a go at the course called 'Place Value - Millions'.



### Maths in Mountains

Have a go at researching the mountains on your task sheet in m and then converting them into cm.

- When finished order them from highest to lowest.
- Think of five questions to ask about the mountains. For example: "What is the difference between the height of Slieve Donard and Slieve Binnian?"

### Prime number and square number challenge

Have a go at the challenge of:

Flora had a challenge for her friends. She asked, "Can you make square numbers by adding two prime numbers together?"

Ollie had a think. "Well, let me see... I know that  $4 = 2 + 2$ . That's a good start!" **Have a go yourself. Try with the squares of the numbers from 4 to 20.**