

Year 5 maths newsletter



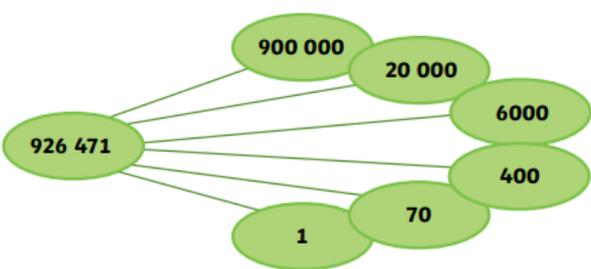
Autumn 1

*Welcome back to the new school year.
This half-term will be split into two maths topics,
'place value' and 'addition and subtraction.'*

*Any queries please email either:
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Number: place value

The value of each digit depending on its position within a number.

<p>Read and write numbers to at least 1 million.</p>	<p>Numbers to 1 million</p>												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">numerals</td> <td style="width: 50%; text-align: center; padding: 5px;">words</td> </tr> <tr> <td style="text-align: center; padding: 10px 5px 5px 5px;">926,471</td> <td style="text-align: center; padding: 10px 5px 5px 5px;"> nine hundred and twenty-six thousand, four hundred and seventy-one. </td> </tr> </table>	numerals	words	926,471	nine hundred and twenty-six thousand, four hundred and seventy-one.	<p>Children move on from thousands in Year 4 and begin to explore the place value in numbers up to 1 million.</p>								
numerals	words												
926,471	nine hundred and twenty-six thousand, four hundred and seventy-one.												
<p>Round numbers to the nearest 10, 100, 1000, 10 000 or 100 000.</p>	<p style="text-align: center; font-size: 1.2em; font-weight: bold;">926 471</p> <table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #f4a460;"> <th>Hundred Thousands</th> <th>Ten Thousands</th> <th>Thousands</th> <th>Hundreds</th> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>2</td> <td>6</td> <td>4</td> <td>7</td> <td>1</td> </tr> </tbody> </table>	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones	9	2	6	4	7	1
Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones								
9	2	6	4	7	1								
<p>Children build on their knowledge of rounding to the nearest 10, 100 or 1000 by rounding to larger numbers.</p>													
													

Counting in powers of 10.

<p>Counting in 10s</p> <table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <tr> <td>365</td> <td>375</td> <td>385</td> <td>395</td> <td>405</td> <td>415</td> </tr> </table>	365	375	385	395	405	415	<p>Counting in 100s</p> <table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <tr> <td>2841</td> <td>2941</td> <td>3041</td> <td>3141</td> <td>3241</td> <td>3341</td> </tr> </table>	2841	2941	3041	3141	3241	3341
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<p>Counting in 10,000s</p> <table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <tr> <td>276 109</td> <td>286 109</td> <td>296 109</td> <td>306 109</td> </tr> </table>	276 109	286 109	296 109	306 109	<p>Counting in 100,000s</p> <table border="1" style="margin: auto; border-collapse: collapse; text-align: center;"> <tr> <td>2 972 151</td> <td>3 072 151</td> <td>3 172 151</td> <td>3 272 151</td> </tr> </table>	2 972 151	3 072 151	3 172 151	3 272 151				
276 109	286 109	296 109	306 109										
2 972 151	3 072 151	3 172 151	3 272 151										

Compare and order numbers up to 1 million.

Compare numbers and objects using 'more than' and 'less than' and 'equal to.'

10,000

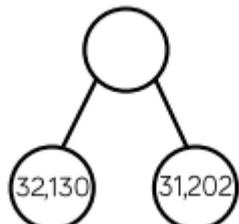
10,000

1,000

100

10

1



10,000s	1,000s	100s	10s	1s
6	3	3	2	0

smallest 898 6735 6835 7019 9002 11 235 greatest

If you have any questions on how to support your child at home, please contact your child's teacher.

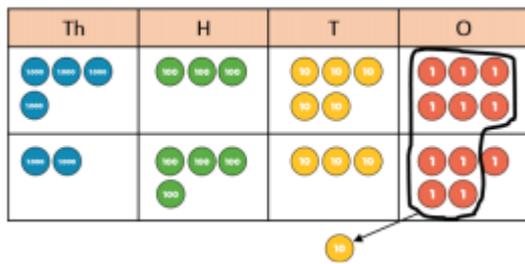
Number: addition and subtraction

Children will continue to develop their understanding of addition and subtraction and develop their understanding of formal methods.

Add and subtract whole numbers with more than 4 digits.

Children will build upon previous learning of pictorial and column methods. They will now look at numbers with more than 4 digits and use their place value knowledge to line the numbers up accurately.

Addition



	3	2	4	6	1
+		4	3	5	2

Subtraction



	5	6	3	13
-	4	3	1	6
	1	3	2	7

Round to estimate and approximate.

Children build on their understanding of estimating and rounding to estimate answers for calculations and problems. The term approximate is used throughout.

Rounding to estimate

$$41,635 + 7386 = 49,021$$

Round to ten:

$$41,630 + 7380 = 49,010$$

$$41,630 + 7390 = 49,020$$

$$41,640 + 7390 = 49,020$$

Questions you can ask to support your child with estimating.

- Which numbers shall I round to?
- Why should I round to this number?
- Why should an estimate be quick?
- When, in real, would we use an estimate?

(To support children with rounding they are taught the rhyme, '4 or below, let it go. 5 or above, give it a shove.')

Inverse operations.

53 476

32 732

20 744

Children will use the inverse to check answers are correct.

$$\text{If } 32,732 + 20,744 = 53,476$$

$$\text{Then, } 53,476 - 32,732 = 20,744$$

Vocabulary

The following vocabulary is used in the classroom to support learning. Please continue to support your child at home by using the same vocabulary.

Place value

millions, thousands, hundreds, tens and ones.

negative number

place value

sequence

rounding

more than, less than

Addition and subtraction

add, altogether, sum, total

subtract, takeaway, difference

column

regroup/ exchange

estimate, approximate

inverse operation

Further support at home

To support your child at home, we encourage the use of the classroom vocabulary and the same methods/strategies of calculation.

When working with your child at home, you can ask them the following question starters to further demonstrate their understanding.

How do you know...

Can you estimate...

What pattern do you notice?

Can this be done in a different way?

What other strategies can we use to work out?

What does ... represent?

Can you explain what would happen if...

What are the key bits of information?

How can we check our answers are correct?

Times tables practise

Times Table Rock Stars is a fun and interactive way for your child to practise their times tables at home. By Year 5, children will have been taught all their times tables up to 12 X 12. Please continue to practise and support your child with these at home.

<https://trockstars.com/>

If you have any questions on how to support your child at home or need any log in information, please contact your child's class teacher.