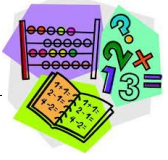




Maths Masterclass

Year 5: Autumn 1



We hope you are enjoying our Maths Newsletters and find them useful. This is an opportunity for you to see the strategies we use to teach Maths in the classroom, alongside some online resources and activities for your child to try at home. We hope this helps with supporting your child and celebrating their successes.

Multiplication and Division

This half term, we will be focusing on multiplying and dividing numbers in different ways. We will first multiply and divide whole numbers by 10, 100 and 1000 using place value grids to support us. We will then look at mental strategies to multiply and how we can apply this to column multiplication for numbers up to 4-digit by 1-digit. Finally, we will do the same for short division, using the 'bus stop' method. Below are some examples of how we teach this in the classroom.

$$60 \div 10 =$$

$$270 \div 10 =$$

$$5520 \div 10 =$$

HTh	TTh	Th	H	T	O

What happens to the digits when we divide by 10?

1) To multiply a number by 10 each digit moves to the left on a place value grid.

2) To multiply a number by 100 each digit moves to the left on a place value grid.

3) To multiply a number by 1,000 each digit moves to the left on a place value grid.

HTh	TTh	Th	H	T	O

Fractions

In this unit of learning, we will first compare and order fractions with the same denominator, before comparing fractions with denominators which are multiples of the same number. We will then look to convert improper to mixed fractions and vice versa. Using all of this learning, in our second week we will start adding and subtracting fractions with different denominators, as well as mixed numbers. Finally, we will multiply some fractions by whole numbers.

Here are a few examples from our lessons.

Write >, < or = to compare the fractions

$\frac{3}{10}$ $\frac{7}{10}$ Which is bigger?

3/10

7/10

3/10 is _____ than 7/10

= 1

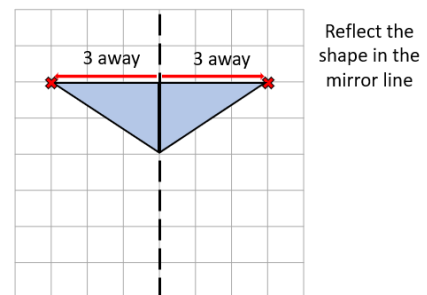
= 1/2

How can we write this in a different way?

$\frac{3}{2} = 1\frac{1}{2}$ This is a mixed number. It is a number with a whole and a fraction.

Geometry

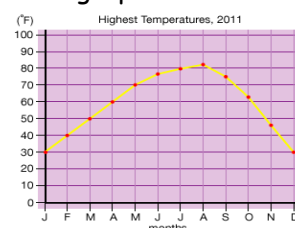
In geometry, we are going to identify, describe and represent the position of a shape following a reflection or translation.



Reflect the shape in the mirror line

Statistics

For statistics, we are going to complete, read and interpret information from tables and graphs such as this one.





Maths at Home



Maths website to support parents and Maths problem solving at home

Nrich has a range of maths games, problems and articles on all areas of maths. Parents can select either 'Stage 1' or 'Stage 2' to support and consolidate mathematical concepts. These usually tie in with the Key Stage of your child.

<https://nrich.maths.org/frontpage>

Each problem has a difficulty rating with 3 stars being the hardest.



Raising the profile of Maths



A good understanding of everyday maths will help your child with the important tasks such as making decisions and understanding information. It will also help them develop lifelong skills. You could play maths related games to help engage your child from home. For example, there are so many 'undercover' maths games that can help your child learn and practise a range of basic skills such as Monopoly, Dominoes, Four in a row, Scrabble and general card games.



Please try to spend 10-15 minutes practising times tables as often as possible to support fluency. Fast recall of times tables really helps children when they solve problems and do more complex maths!

Homework

Children will be set a weekly homework on the MyMaths site. It can be accessed on tablets, laptops and phones. If your child has difficulty logging in or needs more support, please contact ask your child's teacher.

