

Maths Homework Grid (Y5)

Practise your tables, play a maths game and choose one other thing to work on each day. Watch the video link for each one and then have a go yourself!

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| <p><u>Times Tables</u> Spend at least 15 minutes a day practising your times tables https://trockstars.com/ https://www.topmarks.co.uk/maths-games/hit-the-button https://www.timestables.co.uk/</p> | <p><u>Maths Games</u> Choose a maths game to play each day. Have a go at inventing your own maths game. https://matr.org/blog/fun-maths-games-activities-for-kids/ Link to maths games videos: https://www.youtube.com/watch?v=foj6ujoT_HU&list=PLWIJ2KbiNEyoBDc5yLJ4PaiaY3o5E5xCB</p> |
| <p><u>Column Subtraction</u> Roll a dice to create a 4-digit subtract a 4-digit question. Work out the calculation. Repeat 6 times. Can you use the digits 1-9 to create a 4digit subtract a 4-digit subtraction question that will give you an answer nearest to 1000? You can use the digits more than once. How close can you get if you can only use each digit once? https://www.tiffanymacbeth.com/Maths/column_subtraction.htm</p> | <p><u>Column Addition</u> Roll a dice to create a 4-digit add a 4digit addition question. Work out the calculation. Repeat 6 times. Can you use the digits 1-9 to create a 4digit add a 4-digit addition question that will give you an answer nearest to 10 000? You can use the digits more than once. How close can you get if you can only use each digit once? https://www.mathsisfun.com/numbers/addition-column.html</p> |
| <p><u>Multiplication</u> Roll a dice to create a 3-digit number multiplied by 2-digit multiplication question. Work out the calculation. Repeat 6 times. Can you use the digits 1-9 to create a 3digit multiplied by a 2-digit question that will give you an answer nearest to 10 000? You can use the digits more than once. How close can you get if you can only use each digit once? https://www.topmarks.co.uk/maths-games/hit-the-button</p> | <p><u>Always, sometimes, never</u> Can you create 2 mathematical statements that will always be true? Can you create 2 mathematical statements that will sometimes be true? Can you create 2 mathematical statements that will never be true? Can you convince me you are correct? Do you need to draw a picture to help you?</p> |
| <p><u>Factors, multiples, prime</u> Roll a dice to make a 2-digit number. What are the factors of your number? Are any of them prime? What is the 10th multiple of your number? What is the 100th multiple of your number?</p> | <p><u>Measures</u> Roll a dice 4 times to make a four-digit number in grams. Convert the number into kg. Make another four-digit number in metres. Convert the number into km. Make another four-digit number in ml. Convert the number into litres. Have you spotted a pattern?</p> |

Now make a three-digit number. What are the factors of your number? Can you use any divisibility tests to help you?

<https://www.mathsisfun.com/divisibility-rules.html>

Are any of the factors prime?

Using mental and written strategies work out the answers to the following questions. • What is the 23rd multiple of your number? • What is the 46th multiple of your number? • What is the 99th multiple of your number? • What is $\frac{1}{10}$ of your number? • What is 0.25 of your number?

What other facts can you find of your number?

Can you make a poster showing how to convert the different measures?
Can you use a number line to show the relationships?

Number

Roll a dice 6 times. Make as many different 6-digit numbers as you can using the digits. Can you be systematic? Place the numbers in order.

Can you find the difference between each of your 6-digit numbers and 1 000 000?

Divide all your original numbers by 100. What is the difference between your new numbers and 10 000?

<https://www.themathsfactor.com/>

Fractions

<https://www.bbc.co.uk/bitesize/topics/zhdwxnb>

Draw a number line between 0-1.

Roll a dice to make the denominator in a fraction e.g. if you throw a 4 your fraction is $\frac{1}{4}$. Repeat 3 times.

Place your fraction on a number line.

Now roll the dice twice. Make the largest number the denominator and the smallest number the numerator. Place the fraction you have made on the number line. Repeat 5 times.

Now play a game against a partner. Draw a new number line from 0-1.

Roll the dice twice to make a fraction with the largest number being the denominator and the smallest number being the numerator. Take it in turn to place a fraction of the number line. Try to get three of your fractions in a row. Can you block each other? Extend to a number line from 0-6. Roll the dice twice and make a fraction. You can choose where the largest number goes this time. You may make improper fractions. Where will they be on the number line?

NRich investigation

Download Mystery Matrix from nRich

<https://nrich.maths.org/1070>

Can you solve the problem?

| x | | | | | |
|---|----|----|----|----|----|
| | 32 | | 40 | | |
| | | | | 49 | |
| | | 22 | | | |
| | 15 | | | | 27 |
| | | 24 | | | |
| | | | | 42 | |

Shape

Can you work out which triangles are described below?

Who am I? I have one right angle and no equal sides. Who am I?

I have a pair of equal sides and two angles of 45 degrees. Who am I?

I have one angle of 80 degrees, one of 40 degrees. Who am I?

Can you make your own 'Who am I' clues about a selection of quadrilaterals for your friends to solve?

<https://www.topmarks.co.uk/maths-games/7-11-years/shape-position-and-movement>