



YEAR 6

Maths at home for parents and carers



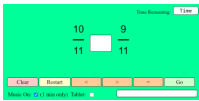
THIS SHORT LEAFLET COVERS SOME OF THE CORE CONCEPTS AND IDEAS THAT YOUR CHILD WILL NEED TO KNOW THIS YEAR. YOU WILL FIND SUGGESTIONS FOR GAMES TO PLAY, ACTIVITIES TO COMPLETE AND WEBSITES TO ACCESS TO SUPPORT YOU, AS YOU SUPPORT YOUR CHILD..

Equipment

Many of the activities included in this helpful leaflet will not require any special equipment. If you have access to online resources this will be useful but not essential when supporting your child.



Websites

 https:// www.topmarks.co.uk/ Flash.aspx?f=WhatFractionv3	 https:// phet.colorado.edu/ sims/html/fraction- matcher/latest/ fraction- matcher_en.html	 https:// www.ictgames.com/ mobilePage/ deadlyDoors/ index.html	 http:// www.snappymaths.co m/counting/fractions/ interactive/ compracy5/ compracy5.htm	 https:// www.ictgames.com/ mobilePage/ equivalence/ index.html
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Maths words and phrases

Repeated addition is **adding equal groups together**. It is also known as multiplication. If the same number is **repeated** then, we can write that in the form of multiplication

Whole: When we divide a **whole** into equal parts, each part is a **fraction** of the **whole**.

Sequence is a list of numbers or objects in a **special order**.

Multiple e.g. the multiples of 5 are all in the **5 times table**.

Factor: Numbers we can multiply together to get another number. Example: 2 and 3 are factors of 6, because $2 \times 3 = 6$

Equivalent Fraction: *have the same value, even though they may look different.*

Key Learning 1 - Multiplication and Division

Recall multiplication and division facts up to 12×12 . Find factors and multiples of positive whole numbers, including common factors and common multiples. Find equivalent fractions and understand that they have the same value and the same position in the linear number system.

Games and Ideas

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

1	2	3	21
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Arrange the four number cards (1, 2, 3 and 21) on the grid above to make a diagonal, vertical or horizontal line.

You can put a number card on a square with a multiple of that number or a factor of that number.

In how many different ways can you do it?
Can you use a strategy that you haven't tried before? You can also play this game online: <https://nrich.maths.org/1138>

Take some playing cards. Each person has a pile, faced down. Turn over at the same time. The first one to say the product of the two numbers wins those cards.



$$2 \times 7 = 14$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

This is a game for two players.

The first player chooses a positive even number that is less than 20, and crosses it out on the grid.

The second player chooses a number to cross out. The number must be a factor or multiple of the first number.

Players continue to take it in turns to cross out numbers, at each stage choosing a number that is a factor or multiple of the number just crossed out by the other player.

The first person who is unable to cross out a number loses.

Why not play factor bingo? Give out a bingo card, or write them on a piece of paper. Choose a number and say...Circle a number that has a factor of 8...6.... Etc

FACTOR TIMES TABLES - C			
6	22	45	84
10	28	55	110
16	36	70	

FACTOR TIMES TABLES - Q			
4	27	40	99
12	30	56	144
16	32	72	

FACTOR TIMES TABLES - G			
6	24	44	90
11	30	56	121
18	40	72	

FACTOR TIMES TABLES - Q			
4	27	40	99
12	30	56	144
16	32	72	

FACTOR TIMES TABLES - M			
8	20	42	80
12	25	50	99
14	33	63	

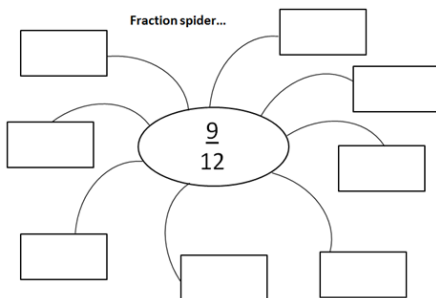
Key Learning 2 - Fractions

Recognise when fractions can be simplified, and use common factors to simplify fractions

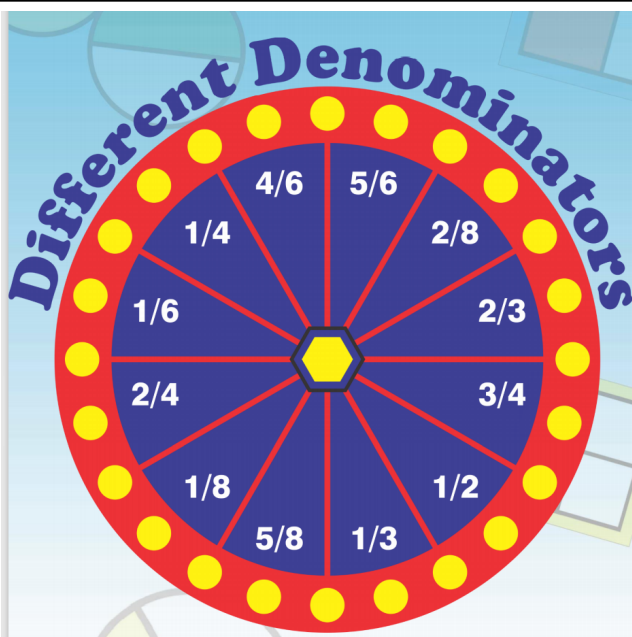
Games and Ideas

On a piece of paper (if you don't have a printer) draw a fraction spider. Draw pictures to represent the fraction in the middle. Can you think of equivalent fractions.

https://phet.colorado.edu/sims/html/fractions-equality/latest/fractions-equality_en.html Try this game for some help with equivalent fractions.



Does your child like art based activities? In this activity you can cut out circles and divide them into parts. What pictures can you make? What equivalents can you see?



Print out or make from a paper plate and make this fraction spinner by sticking a pencil through the middle section. Spin the spinner. Where does it land? Spin 3 times and add up the fractions. Who has the largest total?

You may have to think about common denominators in order to add the fractions together.

Here's a video to support you

<https://www.youtube.com/watch?v=tDQipFjAoT8>

