

Year 1 Maths home learning week 12

This week will be learning all about fractions. A fraction is a part of a whole. In Year 1 we introduce the concept of fractions through halves and quarters of shapes. We would do this practically first so that the children have something concrete to help them.

Task 1 - Make a tasty pizza or bake a delicious cake that you can then divide into fractions.

Have a go at making a pizza or a cake. Once this is made explain that this is 1 whole because it is a whole pizza without any bits missing. Then cut the pizza or cake in half to demonstrate how a whole can be divided into a different number of equal parts and when we put the parts back together it will make a whole again. For example; 2 halves make 1 whole. Repeat this to demonstrate quarters by cutting each half in half again so that you now have 4 equal parts or 4 quarters which can be put back together to make 1 whole.



If you don't have the chance to make and bake (we know it's hard to fit everything in.) cut out these shapes and have a go at folding them into halves and quarters.



Have a look at the BBC video link that also helps to explain fractions. There is also a halves and quarter power point attached for you to go through with your child. This looks at how shapes can be divided in different ways to still get halves and quarters.

https://www.bbc.co.uk/bitesize/topics/z3rbg82/articles/zq2yfrd

Task 2 – recognising and writing fractions

When we teach fractions we talk about the top and the bottom number. The top number shows how many parts of the whole we have and is called the numerator. The bottom number tells us how many parts the whole is split into and is called the **denominator**. Here is a short video clip to help explain this.

https://www.bbc.co.uk/bitesize/topics/z3rbg82/articles/zt7nfrd



of 2 pieces.

piece of cake out of 4 pieces. pieces of cake out of 4 pieces. Which is the same as 1 half. Have a look at the shape power point which shows lots of different ways shapes can be made into fractions and then have a go at the sheets below.



My pizza is: ______ cheese and tomato ______ olives ______ anchovies

_____ mushroom



Colour in the fraction given under the picture

1. Can you find 6 different ways to shade $\frac{1}{2}$ of these shapes?



2. Shade $\frac{1}{4}$ of these shapes.



3. Now shade $\frac{1}{4}$ in a different way.



If you fancy a challenge, try the next question

4. Find different ways to colour $\frac{2}{4}$ of this shape.



5. How did you know how many squares to colour?

Task 3- fractions of amounts

Once your child is confident with fractions of shapes you can move onto fractions of numbers. When we each find a fraction we talk about sharing equally. (just like division last week). So for finding a ½ of 6, we share 6 equally between 2 groups and when we find ¼ of 8 we share 8 equally between 4.



Have a go at the questions below. You can cut them up, get your child to pick one and then solve practically by sharing out the total number of objects on the templates provided below.

½ of 2	¼ of 4
½ of 4	¼ of 8
½ of 6	¼ of 12
½ of 8	¼ of 16
½ of 10	¼ of 20
½ of 12	¼ of 12
½ of 14	¼ of 16
½ of 16	¼ of 20
½ of 18	½ of 20

Use this to find a half.





If you think your child is ready, have a go at the challenges below. Please do not feel like you have to do them all. You can pick and choose.



