Entra Support week 5 - What is a fraction?

There are two parts to a fraction: A fraction means a part of something or <u>a number of</u> parts of something.

are The number on top shows how many parts there something has been divided into The number on the bottom shows how many parts This is called the denominator. This is called the numerator

Often fractions are shown as shapes.

This circle shows the fraction ω|-

shaded so the numerator is I The shaded part represents the numerator. Only I part is

the denominator is 3 shaded part. The denominator is the total number of parts including the This circle has been divided into 3 parts so

This rectangle shows the fraction ¢' _

I part is shaded so the numerator is I

The shape has been divided into 4 <u>parts</u> so the denominator is 4

Sometimes shapes have more than one part shaded.

5

This shape shows

<u>so</u> the numerator is 2 So the denominator is 5 There are 5 2 parts are shaded parts in total

There are 6

so the numerator is 4 This shape shows 4 parts are shaded 6 +

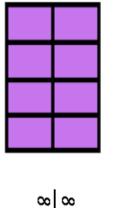
So the denominator is 6

parts in total

shaded shape this would look like this When the numerator and denominator are the same. It is a whole.

On a

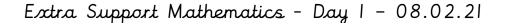
there are 8 parts. it) is shaded and the denominator is 8 because The numerator is 8 as all parts (The whole of





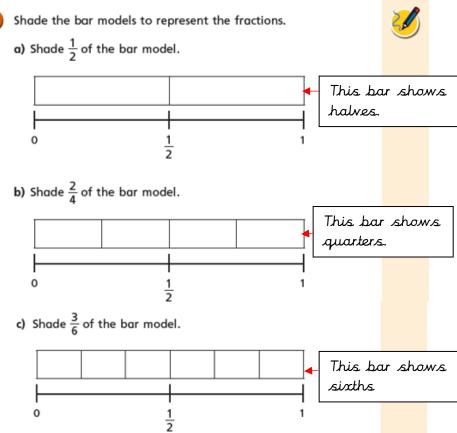


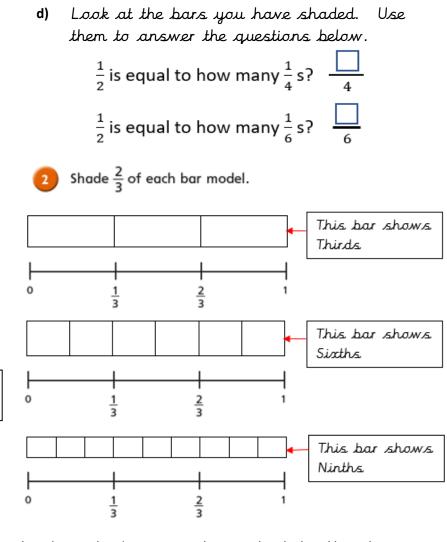






Have another read through the Extra Support Fractions Explanation above. When you think you remember what a fraction is, start the questions below. You could also take another look at the Weblink – <u>https://www.youtube.com/watch?v=n0FZhQ GkKw</u> Remember to count how many parts there are in total (The Denominator) and how many parts are shaded (The Numerator)





Look at the bars you have shaded. Use them to answer the questions below.

 $\frac{2}{3} \text{ is equal to how many } \frac{1}{6} \text{ s? } \frac{1}{6}$ $\frac{2}{3} \text{ is equal to how many } \frac{1}{9} \text{ s? } \frac{1}{9}$

Day 2 - 09.02.21

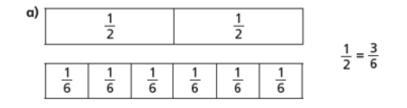
Equivalent fractions (1)

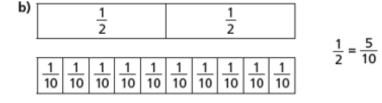
Here is an example of an equivalent fraction.

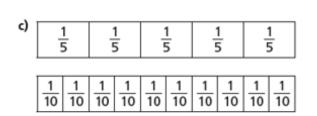


Notice how the shaded part of each bar is the same length. They are equivalent. Now have a go at the equivalent fractions below.

Shade the bar models to represent the equivalent fractions.



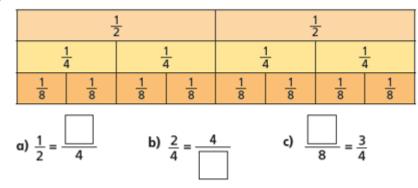




 $\frac{4}{5} = \frac{8}{10}$

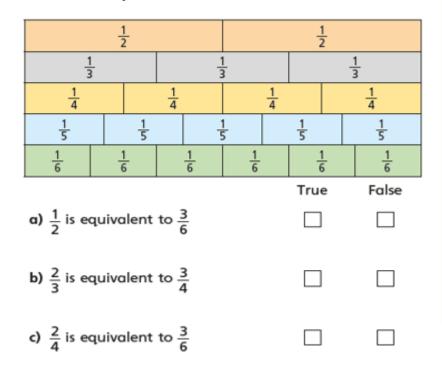
Take a look at this YouTube video explaining how to use a fraction wall to work out equivalent fractions. https://www.youtube.com/watch?v=8Lp0xrtq0co





5

Here is another fraction wall. Use it to decide which of the statements below are true and which are false. Tick the correct answer.

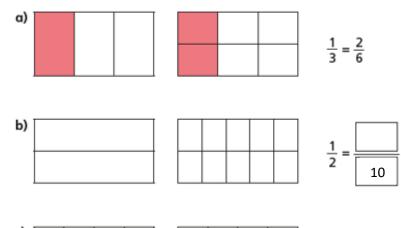


Day 3 - 10.02.21

Equivalent fractions (2)

Shade the diagrams to help you complete the equivalent fractions.

The first one has been done for you.





2

Match the equivalent fractions.

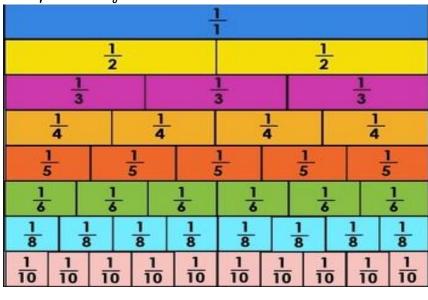


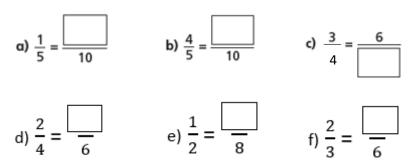
 $\frac{1}{4}$



6

Use the fraction wall to help you complete the Equivalent fractions below





Now see if you can make up 2 of your own using the fraction wall to support you.



Count in fractions

Counting in fractions can be quite tricky when only using numbers, so let's take a look at counting in fractions using pictures and numbers.

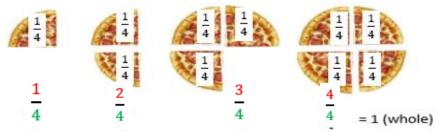
One of the most important things to remember when counting fractions is that when the top and bottom number are the same, it is a whole or 1.



Here is a pizza that has been divided into 4 quarters.

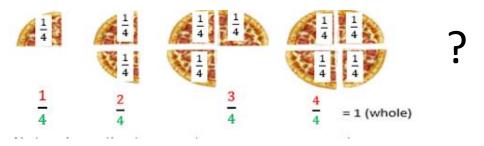
You can clearly see that if we put those 4 pieces together, we would have a whole pizza or 1 pizza.

So if we were going to count the parts of the pizza to get to | whole or | it would be like this.

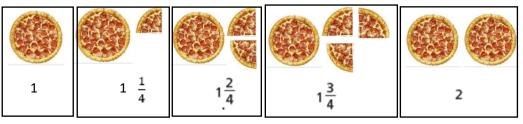


Notice how the top number goes up in equal amounts (ls) whilst the denominator (bottom number) stays the same.

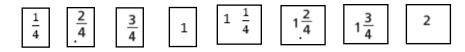
So how would we continue counting after 1?



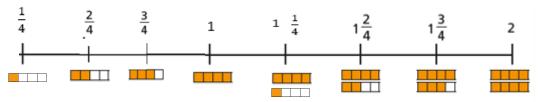
The answer is, in exactly the same way. Like this



So the whole sequence counting in quarters is:



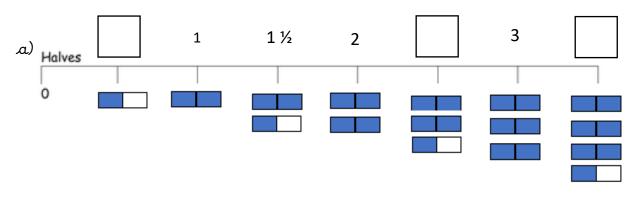
On a numberline using bars, it would look like this.

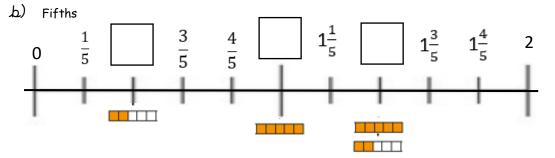


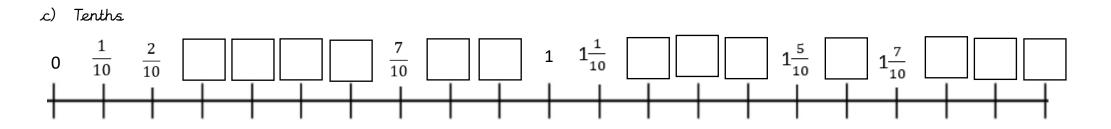
Using the bars helps you to see each fraction clearly. When a bar is full, that's a whole and you start a new bar.

Now it's your turn to have a go

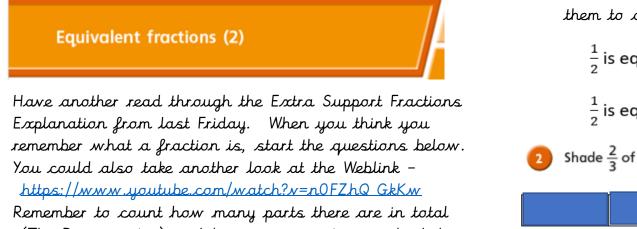
Complete the numberlines below by filling in the missing fractions.



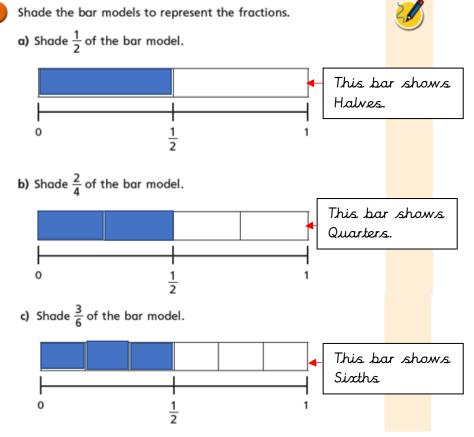


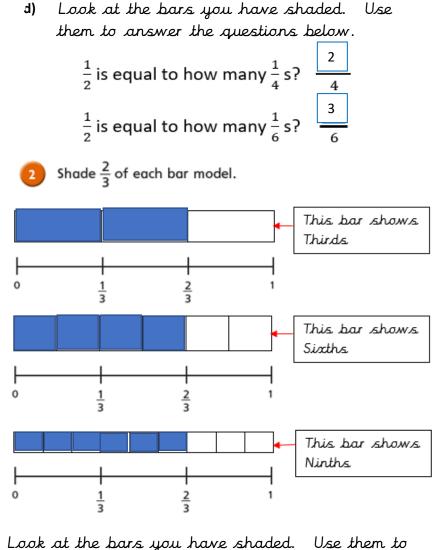






(The Denominator) and how many parts are shaded (The Numerator)





Look at the bars you have shaded. Use them to answer the questions below.

$$\frac{2}{3} \text{ is equal to how many } \frac{1}{6} \text{ s? } \frac{4}{6}$$

$$\frac{2}{3} \text{ is equal to how many } \frac{1}{9} \text{ s? } \frac{6}{9}$$

30

Day 2 - 09.02.21

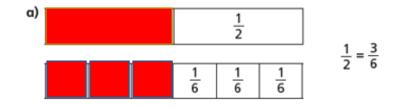
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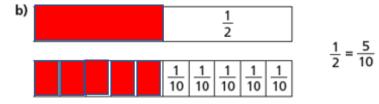
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Notice how the shaded part of each bar is the same length. They are equivalent. Now have a go at the equivalent fractions below.

Shade the bar models to represent the equivalent fractions.

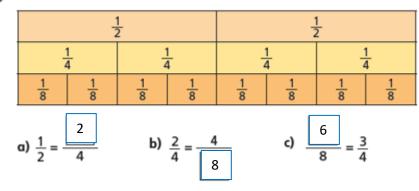






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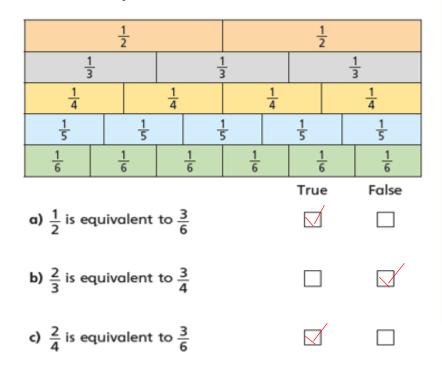




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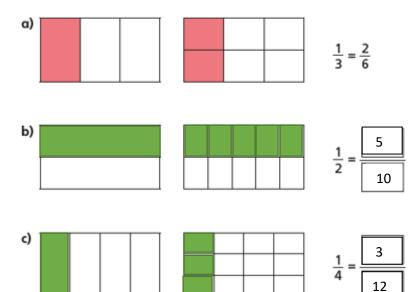


Day 3 - 10.02.21

Equivalent fractions (2)

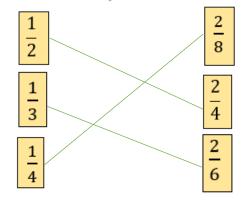
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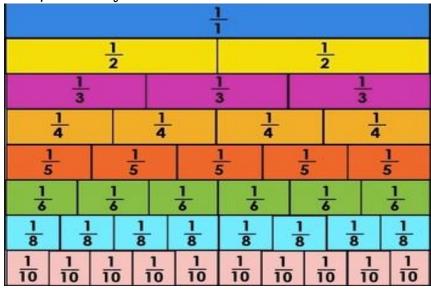


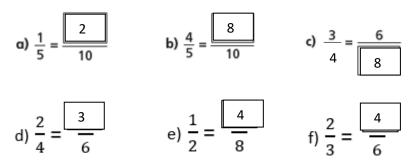
2





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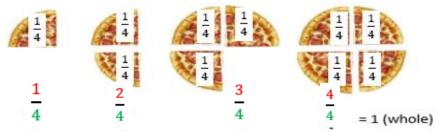
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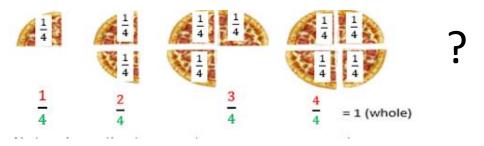
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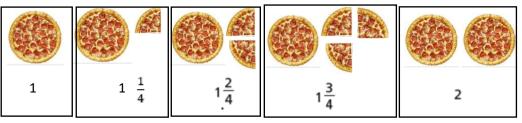


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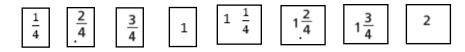
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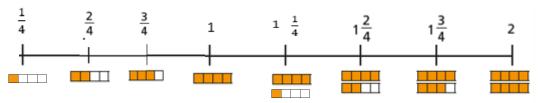
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