Hello Year 6,

Mrs Yeandle here. I hope you have had a fun Christmas. It was a Lego Christmas in my house, I received the Gingerbread House - which will become a Christmas decoration under our tree every year now. I may try to cheat and pack it up almost complete, so I don't need to build it all again next year!

For the first part of this half term we will be looking at decimals and percentages, linking back in to all the work we did last term on fractions.

Jan 4-08:53

## LI: To read a decimal number and link it to a graction

Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
100 100	10	00	•			

You are used to us presenting whole numbers in a place value chart.

For example, here you can see 213.

Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
				0.1 0.1		
			•			

However, the place value chart can also be used to represent fractions or parts of a whole number. These are our decimal numbers (also known as decimal fractions).

These are the parts of the number that are less than I. So tenths, hundredths and thousandths.

For example, here you can see 0.2, which is the same as 2

10

Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
			•	0.1 0.1	0.01	

This numbers has 3 tenths and 2 hundredths.

As a decimal we would write it as 0.32

Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
			•	0.1	0.01 0.01	0.001

This number has I tenth, 4 hundredths and 2 thousandths.

As a decimal we would write it as 0.142

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Can you gill in the gaps about the numbers represented here?







Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
				0.1 0.1	0.01 0.01	0.001
			•	0.1	0.01 0.01	

This number has \_\_\_ tenths,
\_\_ hundredths and \_\_\_ thousandths.

As a decimal we would write it

Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
				0.1	0.01	0.001
			•		0.01	0.001

This number has \_\_\_ tenths,
\_\_ hundredths and \_\_\_ thousandths.

As a decimal we would write it

Can you draw in place value counters to show the numbers written at the side? Can you cill in the gaps about the number?

Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
			•			

This number has \_\_\_ tenths, \_\_ hundredths and \_\_\_ thousandths. As a decimal we would write it 0.623

I	Hundreds	Tens	Ones	•	Tenths	Hundredths	Thousandths
				•			

\_\_\_ hundredths and  $_{--}$  thousandths.

As a decimal we would write it 0.305

This number has \_\_\_\_ tenths,

Jan 4-09:34

$$S_0 = \frac{1}{10}$$
 as a decimal is written as 0.1

1 100 as a decimal is written as 0.01

as a decimal is written as 0.001

Can you draw lines to match the graction to the decimal?

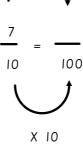
0.07 0.7 0.3 0.005

Did you gind linking the 0.7 to  $\frac{70}{100}$  the trickiest one? X

Think back to our work on equivalent fractions.

Think what have we done to get from one denominator to the other.

Then do the same to the numerator.



Jan 4-09:43

$$\frac{3}{10} = \frac{30}{100} = \frac{300}{1000}$$
 so  $0.3 = 0.30 = 0.300$ 

$$\frac{7}{10} = \frac{70}{100} = \frac{700}{1000}$$
 so Can you write the decimal equivalents?

$$\frac{5}{10} = \frac{1}{100} = \frac{1}{1000}$$
 so Can you fill in the graction and the decimal equivalents?

Some gractions are a bit trickier to turn into decimals.

$$\frac{2}{5}$$
 is not in tenths, hundredths or thousandths

However, we can use our knowledge of equivalent gractions to turn it into tenths, hundredths or thousandths. Let's try tenths girst.

$$\frac{2}{5} = \frac{10}{10}$$

If we do the same to the numerator, we see that  $\frac{2}{5} = \frac{4}{10}$ 

So, as a decimal 
$$\frac{2}{5} = 0.4$$

Jan 4-10:00

Let us try another



This does not work!

So, we can try hundredths.

$$\frac{1}{4} = \frac{1}{100}$$

$$\times 25$$

$$\frac{1}{4} = \frac{25}{100} = 0.25$$

Can you convert these gractions into decimals? Remember, if they are in tenths or hundredths already they are easier to convert. However, you may need to convert your graction into tenths or hundredths, before you can turn it into a decimal!

$$\frac{4}{10} = \boxed{ \frac{65}{100} = } = \boxed{ \frac{3}{5} = } = \boxed{ }$$
convert to tenths
or hundredths girst

Jan 4-10:11

See if you can work your way through the examples and questions.

If you have a way of uploading your work, then you can email it to UKS2parents@epcollier.reading.sch.uk

If you can put in the subject bar your name and work for Mrs Yeandle - I should be able to access it!

If you are not able to do this but can print off your work, then it would be great to see it when you return to school.

Thank you Year 6,

From Mrs Yeardle