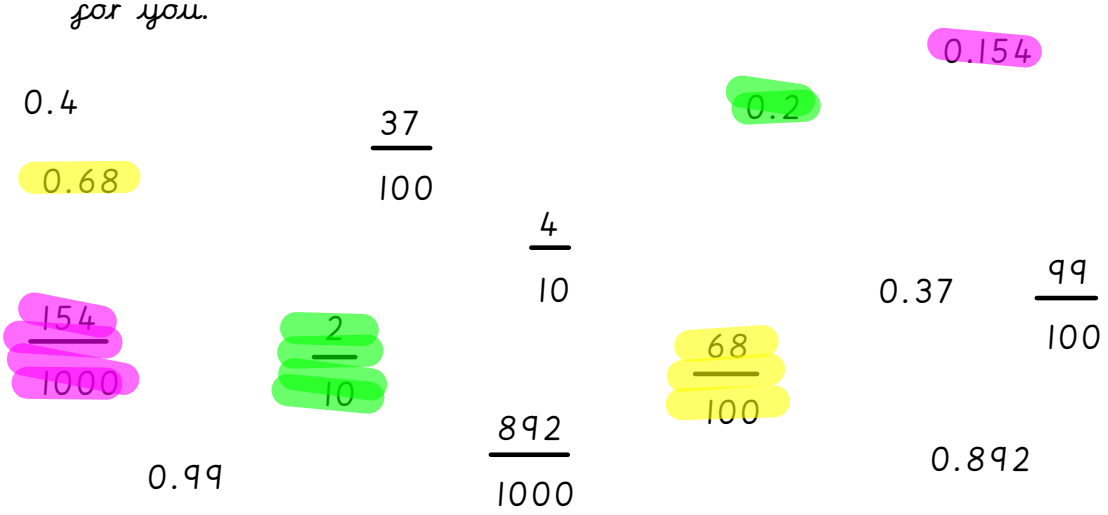
Hello again Year 6,

Hope you are all well. As I am working I can see out of the window and it looks a bit frosty.I will try to go for a walk later, with my children - once they have finished their school work. I hope you are managing to get some fresh air too.

This week we are going to continue to look at turning fractions into decimals.

Jan 7-12:03

Can you match the following fractions to their decimal equivalent? Colour the pairs that match. Three have been done for you.



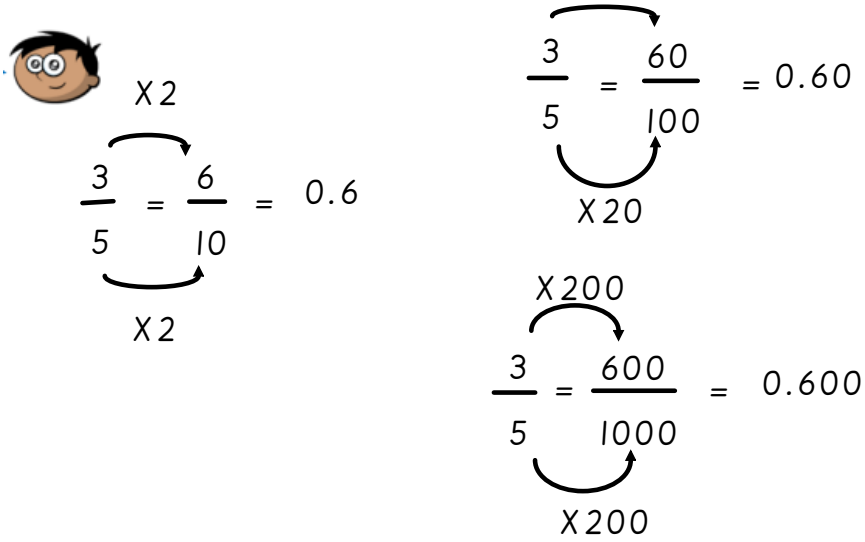
Can you make up 3 pairs of your own?

Jan 7-12:07

Amir says, I can turn a fraction into a decimal by first of all turning my fraction into tenths, hundredths or thousandths.

Do you agree?

Jan 7-12:12



From this we can see that 0.6 is equal to 0.60, which is equal to 0.600

6 tenths is equal to 60 hundredths, which is equal to 600 thousandths.

Jan 7-12:24

Can you turn this fraction into tenths, hundredths and thousandths and then into the different equivalent decimals (just like Amir did on the previous slide)?

$\frac{4}{20} = \frac{\quad}{10} =$

$\frac{4}{20} = \frac{\quad}{100} =$

$\frac{4}{20} = \frac{\quad}{1000} =$

Tip: Look back at the previous slide for help if you need it.

So these decimals are all equivalent _____

___ tenths are equal to ____ hundredths, which are equal to ____ thousandths.

Jan 7-13:30

So, to convert a fraction to a decimal we can try to turn it into either tenths, hundreths or thousandths.

Some will not turn into tenths, for example $\frac{1}{4}$

so you would need to try hundredths instead.

Convert these fractions into decimals:

$\frac{3}{5} = \square = \square$

$\square$ tenths, hundredths or thousandths

$\square$ decimal

$\frac{3}{4} = \square = \square$

$\square$ tenths, hundredths or thousandths

$\square$ decimal

$\frac{4}{20} = \square = \square$

$\square$ tenths, hundredths or thousandths

$\square$ decimal

$\frac{32}{50} = \square = \square$

$\square$ tenths, hundredths or thousandths

$\square$ decimal

Jan 7-12:35

Amir says, I have a problem converting $\frac{1}{6}$ into a decimal, because I can't turn it into tenths, hundredths or thousandths.

Do you agree?

Jan 7-13:47

Amir is correct. There are some fractions that we cannot convert into tenths, hundredths and thousandths.

So, we need a different method to turn these fractions into decimals.

$\frac{1}{6} = 1 \div 6$

We can use our short division method to work this out.

$$6 \overline{)1.^{1}0^{4}0^{4}0} \quad 0.166$$

Here I could keep going because there are 4 remainder, so I could add another decimal place and another.
We call this a recurring number.
3 decimal places are usually enough. We can show it is recurring by putting a dot above the recurring digit. $0.1\dot{6}$

$\frac{1}{6} = 0.1\dot{6}$

Jan 7-13:51

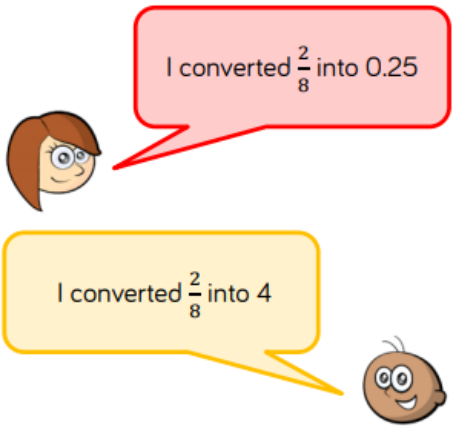
$\frac{1}{9} = 1 \div 9$

Can you work this out?

$9\overline{)1.000}$

Jan 7-13:58

Rosie and Tommy have both attempted to convert $\frac{2}{8}$ into a decimal.



Who is correct?
Prove it.

Jan 7-13:58

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 Yeandle

Jan 7-14:13