## Fractions to Decimals Tuesday lesson

Follow the Power point and see all the answers/advice. Then have a go at one of the question sheets D/E or GD answering direct into book no cutting or sticking.







#### Remember a fraction is a sum

$$\frac{1}{10} = 1 \div 10 = 0.1$$

$$\frac{2}{5} = \frac{20}{50} = \frac{40}{100} \qquad 2 \div 5 = 0.4$$
$$20 \div 50 = 0.4$$
$$40 \div 100 = 0.4$$

They are all equivalent fractions so you get the same decimal. Remember what you do to the top you do to the bottom.

Use a calculator to check if you need to.

Match the fractions to the equivalent decimal to find the odd one out.



Match the fractions to the equivalent decimal to find the odd one out.







# Now remember that the shape is the whole

How many pieces out of the total to get the fraction? Then do the sum to get the decimal if you do not see the answer straight away.

We should all be able to divide any number by 100...

Convert the fractions below to decimals.



Convert the fractions below to decimals.



Match the decimals to the equivalent image.



Match the decimals to the equivalent image.



Y6











Problem Solving 1

Convert the fractions into decimals and write them in ascending order.





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Convert the fractions into decimals and write them in ascending order.



#### In ascending order: 0.4, 0.5, 0.6, 0.8



Reasoning 2

Josh is converting a fraction to a decimal.

He says,



 $\frac{4}{5}$  as a decimal is 0.6

Is he right? Prove it.



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Josh is incorrect because...



Reasoning 2

Josh is converting a fraction to a decimal.

He says,



 $\frac{4}{5}$  as a decimal is 0.6

Is he right? Prove it.

Josh is incorrect because as a decimal  $\frac{4}{5}$  = 0.8, not 0.6.



### Developing questions









#### 4b. Match the decimals to the equivalent image.



#### Expected

5a. Match the fractions to the equivalent decimal to find the odd one out.











8a. Match the decimals to the equivalent image.



8b. Match the decimals to the equivalent image.



#### Greater Depth

9a. Match the fractions to the equivalent decimal to find the odd one out.



9b. Match the fractions to the equivalent decimal to find the odd one out.





