Harry Potter & The Magical Potions



Investigating ratio & proportion

Ratio

Ratio = ' to every' or ' For every' Ratio compares part with part e.g.





What is the ratio of

Wands to broomsticks



A picture to show the ratio of : Hats to spell books 4 : 3

m



Proportion

Proportion = 'In every' or 'Out of '
Proportion compares part with whole
it is more like a fraction



What is the proportion



What is the proportion of





A picture to show the proportion :

3 in every 5 is Hats







Harry's Frog Potion

 Harry has been mixing his ingredients and made a potion to turn people into frogs. Look at the ingredients and answer the questions using your knowledge of ratio and proportion



Frog Delight

300 g Fresh Frogs eyes120 g frog spawn75 g pond water

(makes enough for 9 people)

Harry makes the potion using 900 g of frogs eyes What weight of frog spawn should he use? What weight of pond water?

Ron slips and only put in 25g of pond water . How much of the other 2 ingredients will he now need - how many people will this turn into frogs?





Hogwart Hash

250ml Muggle blood 50g Wizard hair



1 kg (being 1000g) owl feathers 750g Hagrids whiskers (makes 20 portions)

Dumbledore orders enough Hogwart Hash for Hufflepuff (100 people) How much of each ingredient is needed?

Hermione says we only have 200g of owl feathers left – How many people will that feed?

Snape is annoyed – he wants to feed the whole of Hogwarts – 800 people. How much muggle blood will you need?

Your Task....



• Help Harry work out the correct amounts for his potions before **Professor Snape** finds out he has been messing about and reports him to Dumbledore.

