



Ratio and Proportion Problems

- At a party, Hannah's dad puts out the food for all the guests. These are the ratios he uses for the different plates:
 - Fruit plate – 10 grapes : 4 slices of apple : 2 slices of melon
 - Biscuit plate – 4 pink wafers : 5 jaffa cakes
 - Sandwich plate – 5 ham sandwiches : 6 cheese sandwiches : 4 tuna sandwiches
 - Savoury plate – 6 sausage rolls : 3 pork pies
 - Pizza slice plate – 8 cheese and tomato : 6 ham and pineapple : 4 pepperoni
- Some of the ratios can be simplified. Find the ones which can and simplify them.
- If there are 15 grapes on one of the fruit plates, how many slices of apple and melon should there be?
- There need to be 36 biscuits in total. How many of each type of biscuit would this be?
- What fraction of the sandwiches are ham?
- The savoury plate has 15 items put on it. How many of these are sausage rolls?
- If there are 9 slices ham and pineapple pizza, then how many cheese and tomato and pepperoni slices should there be?
- Make up your own questions about these ratios and proportions for a friend to answer.