



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

1. Some of the ratios can be simplified. Find the ones which can and simplify them.
2. If there are 15 grapes on one of the fruit plates, how many slices of apple and melon should there be?
3. There need to be 36 biscuits in total. How many of each type of biscuit would this be?
4. What fraction of the sandwiches are ham?
5. The savoury plate has 15 items put on it. How many of these are sausage rolls?
6. 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.