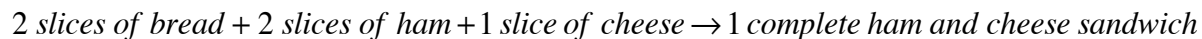


# HOW MANY MOLES IN A HAM AND CHEESE SANDWICH?

NAME: \_\_\_\_\_

Marks: /12

A ham and cheese sandwich can be given by the following balanced equation:



1. How many sandwiches can be made if there are 14 slices of bread, 13 slices of ham and 10 slices of cheese?

[2]

2. How many ham slices are needed to produce 5 sandwiches?

[2]

3. Assume that the molar mass of ham is 24.5g/mol. How many moles of ham is in 100g?

[2]

4. Hence, based on the information given from the last question, if a slice of ham is 50 grams, how many moles of cheese are needed to balance 18 ham slices?

[3]

5. Assume the molar mass of cheese is 12.1g/mol. What is the mass of cheese needed to balance the mass of 18 ham slices?

[3]