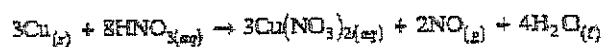
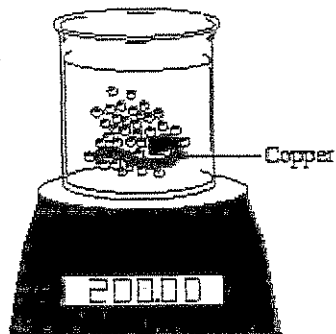


Consider the following reaction:



A piece of copper is added to a nitric acid solution in an open beaker, allowing the $\text{NO}_{(g)}$ to escape. The following data was obtained:

TIME (min)	MASS OF BEAKER AND CONTENTS (g)
0.0	200.00
1.0	197.50
2.0	195.45
3.0	193.55
4.0	191.70
5.0	189.90
6.0	188.15
7.0	186.45
8.0	184.80



a) Calculate the reaction rate for the time period 2.0 to 6.0 min.

(2 marks)

b) Calculate the mass of copper consumed in the first 5 minutes.

(3 marks)