

**Paper Reference(s) 4CH1/1CR 4SD0/1CR**  
**Pearson Edexcel International GCSE (9–1)**

**Chemistry**

**UNIT: 4CH1**

**Science (Double Award) 4SD0**

**PAPER: 1CR**

**Diagram Booklet**

**In the boxes below, write your name, centre number and candidate number.**

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

## INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

**THIS DIAGRAM BOOKLET MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

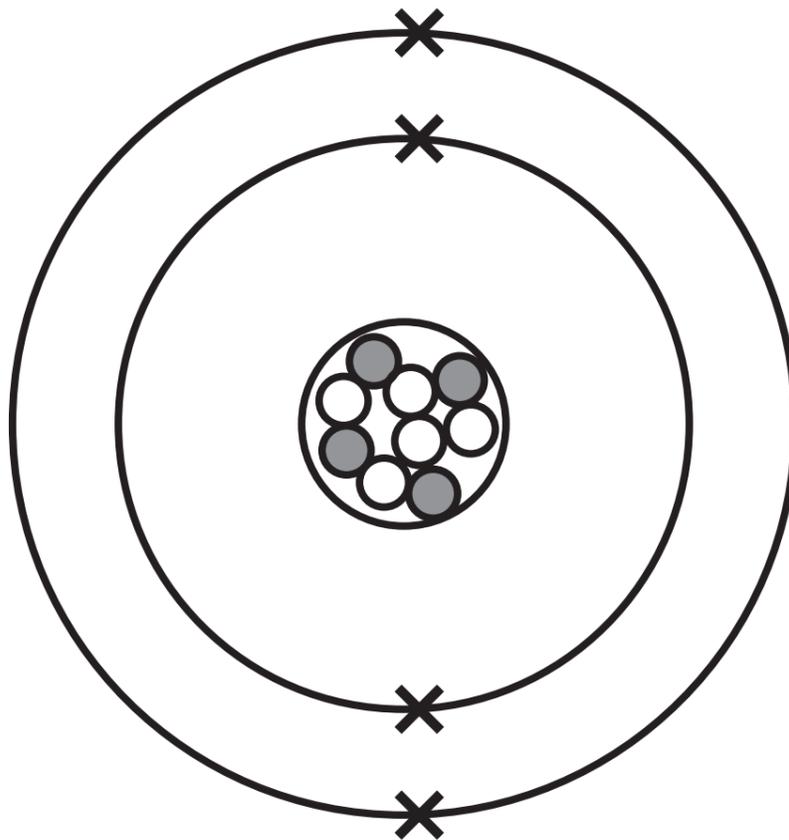
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## Question 1(a)

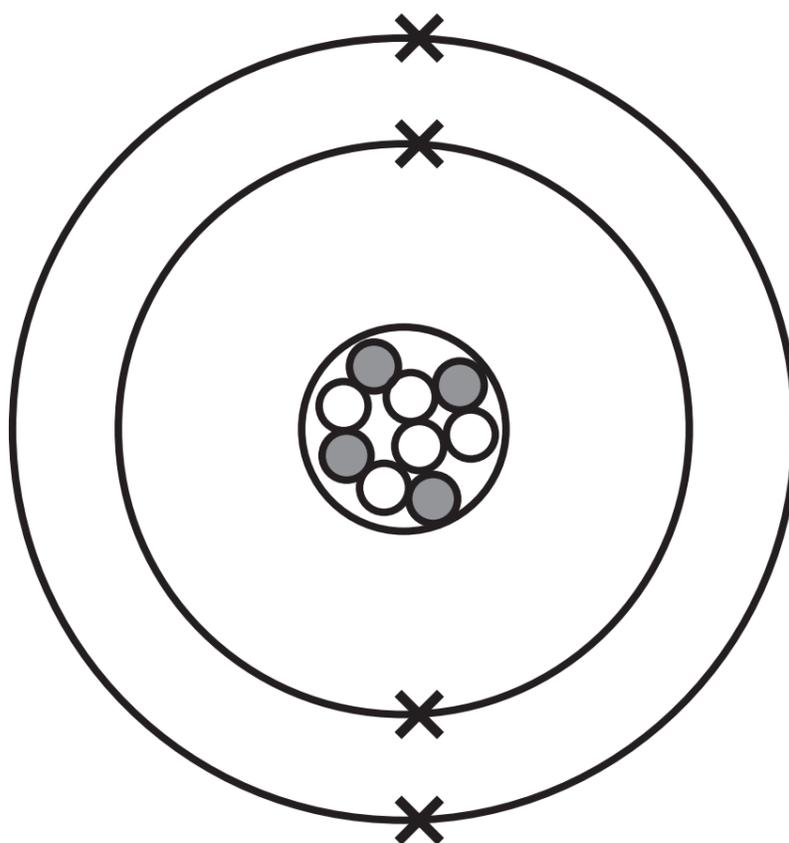
- proton
- neutron
- × electron



<b>Atomic number of this atom</b>	
<b>Mass number of this atom</b>	
<b>Period number of this element</b>	
<b>Number of electrons in the 2+ ion formed from this atom</b>	

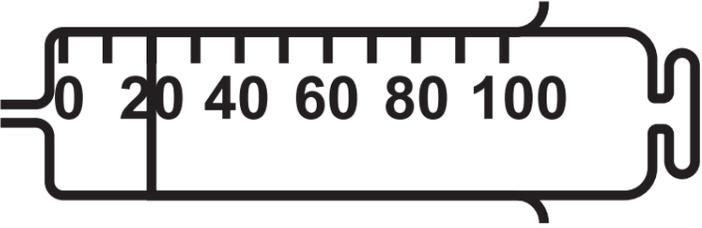
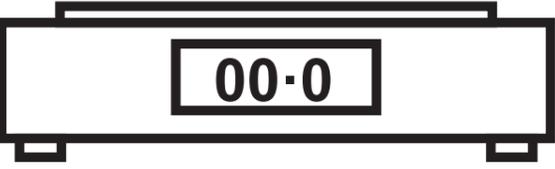
## Question 1(a)

- proton
- neutron
- × electron

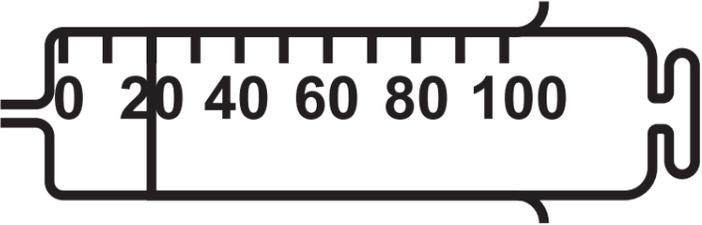


<b>Atomic number of this atom</b>	
<b>Mass number of this atom</b>	
<b>Period number of this element</b>	
<b>Number of electrons in the 2+ ion formed from this atom</b>	

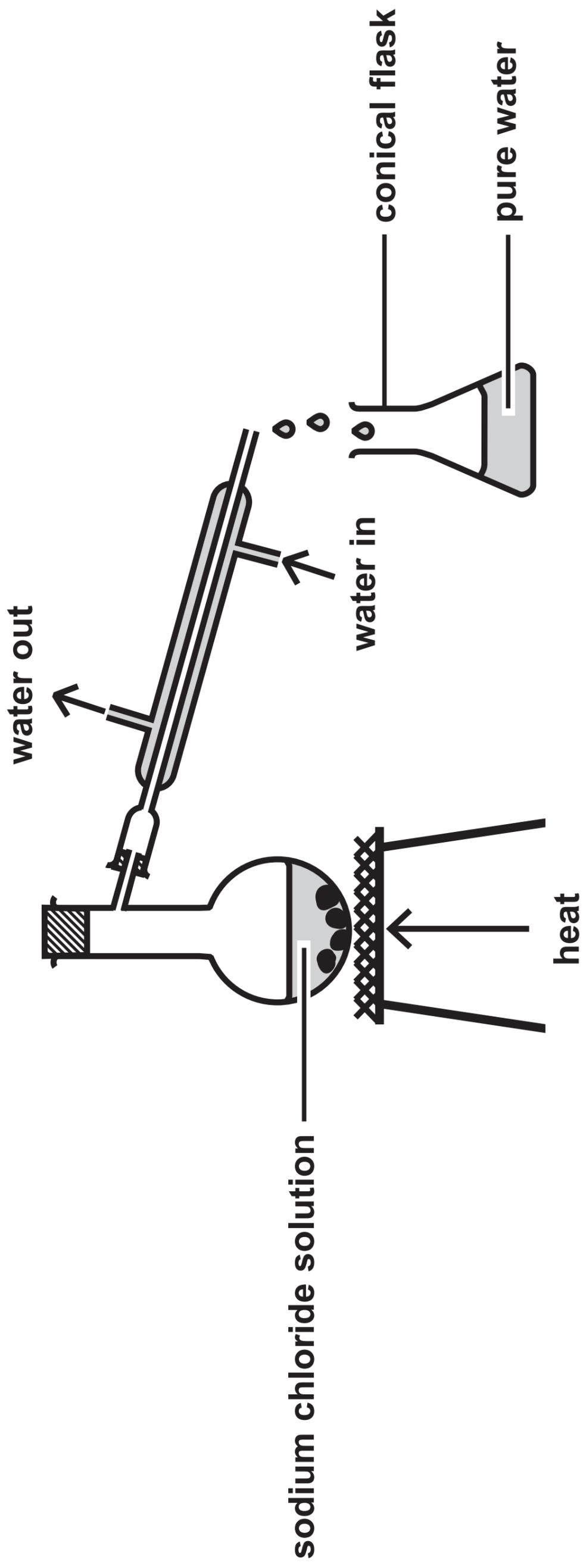
## Question 2(a)

Apparatus	Name	Unit
		
		

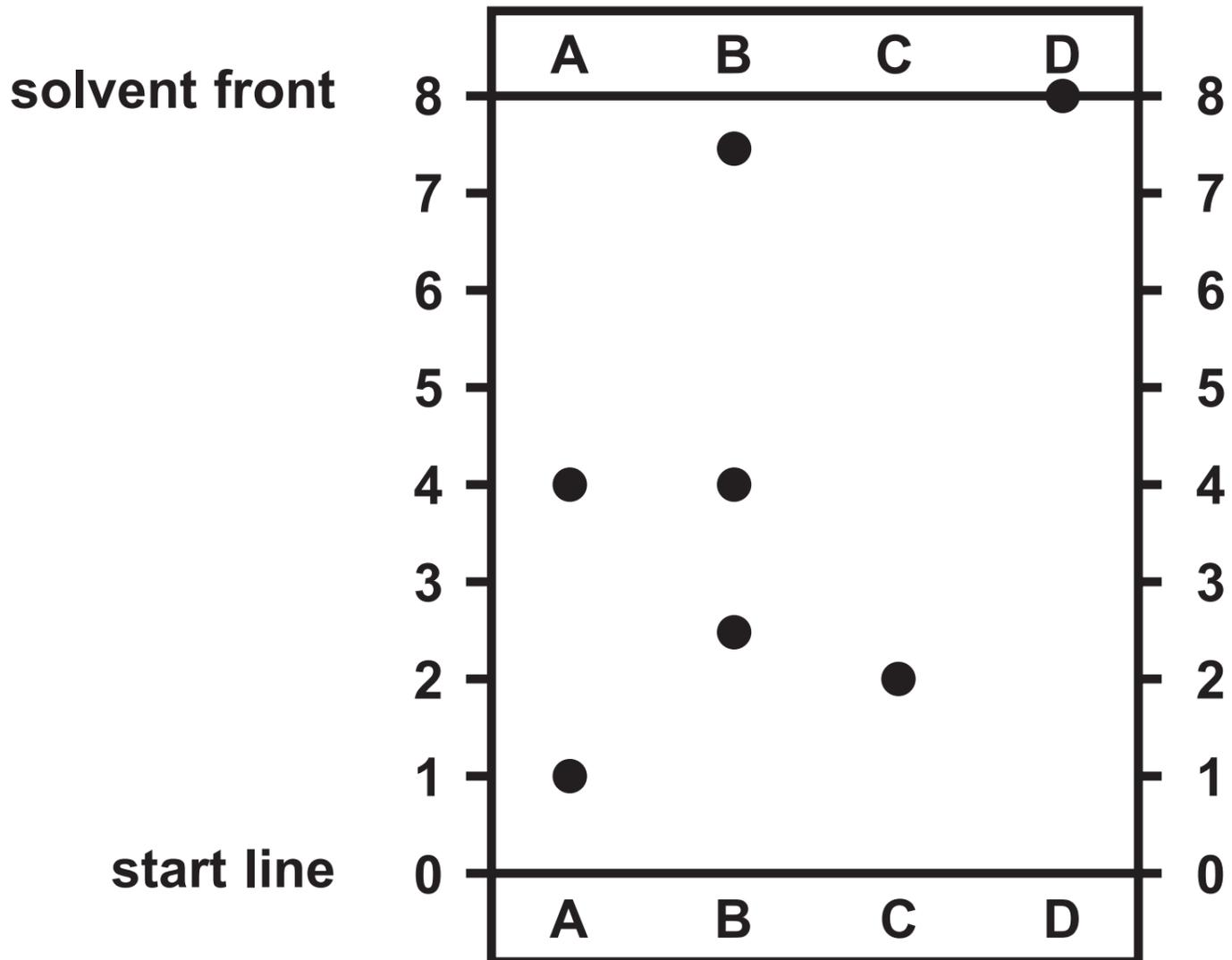
## Question 2(a)

Apparatus	Name	Unit
		
		

Question 2(b)

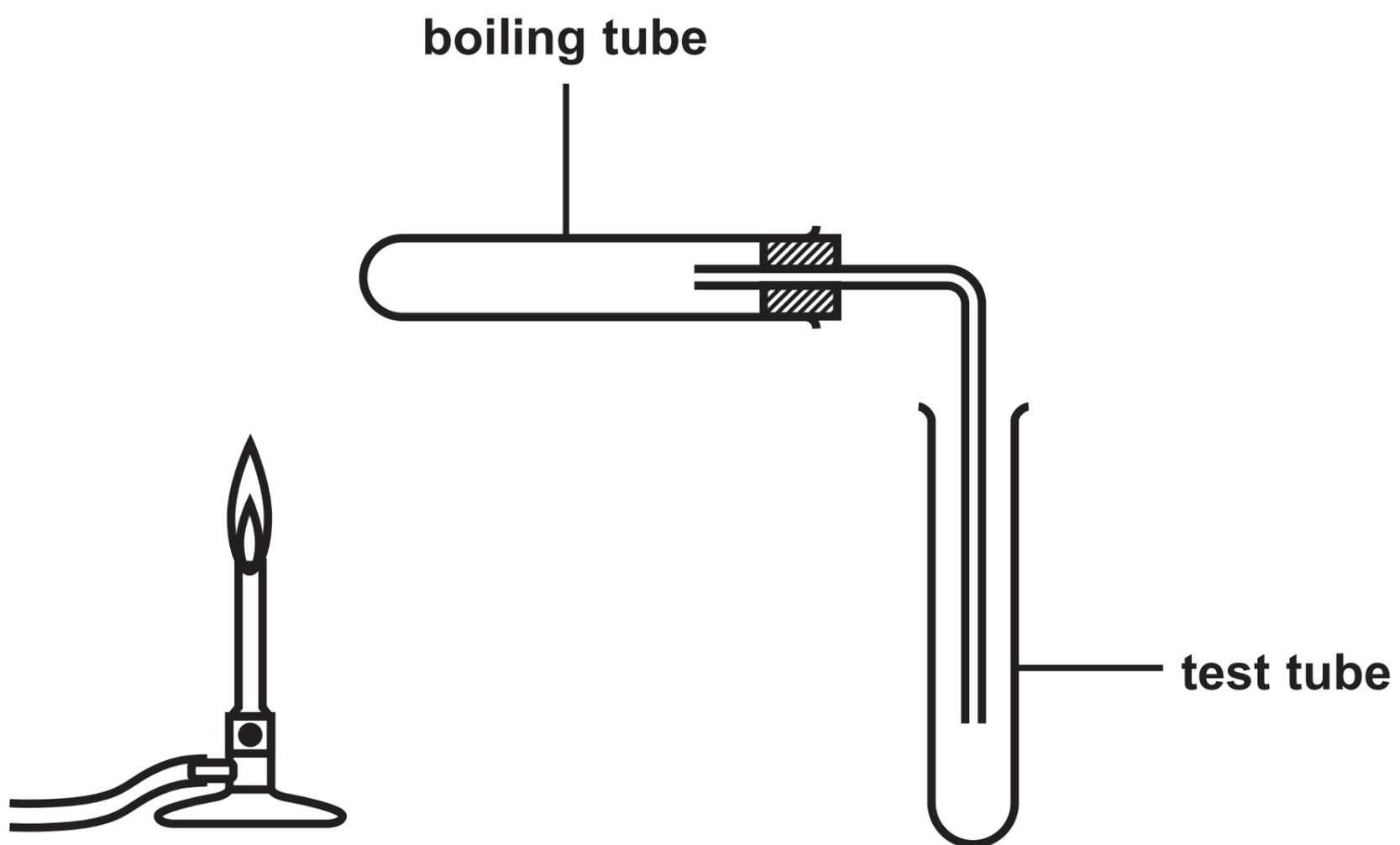


## Question 3

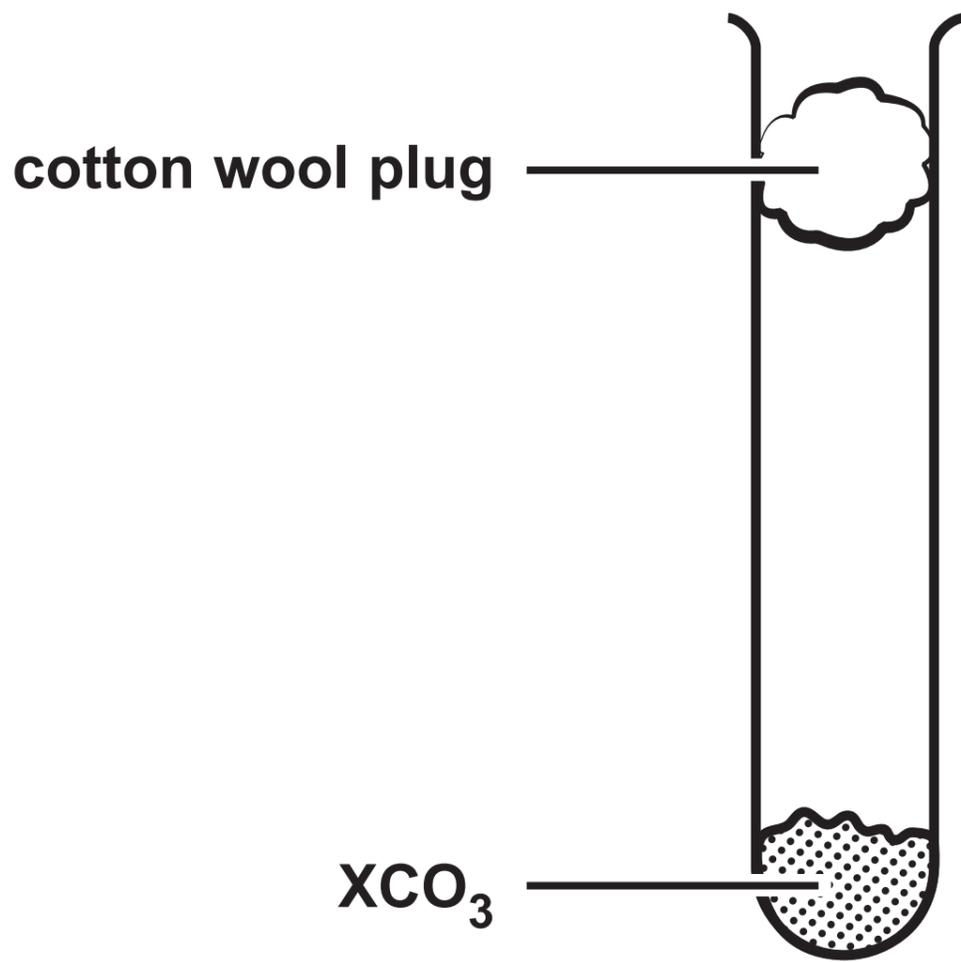




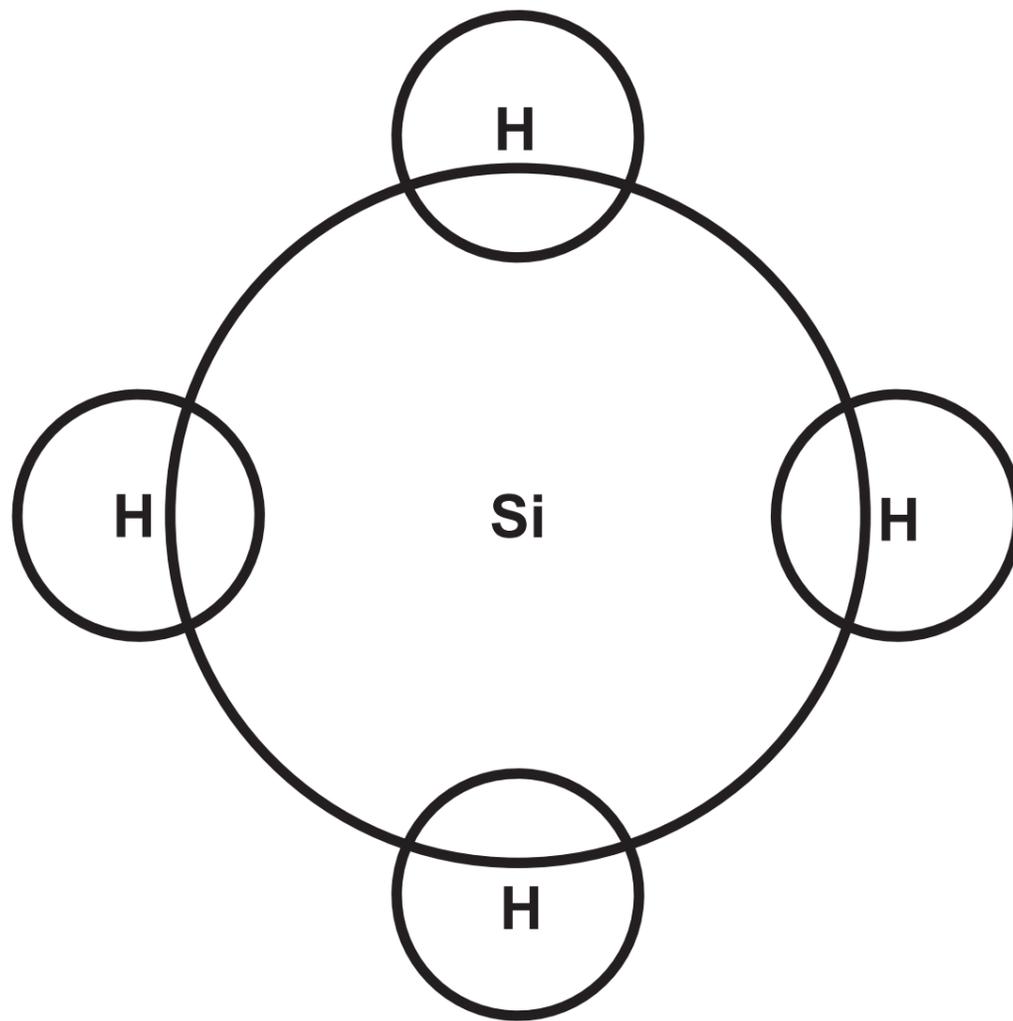
Question 5(a)



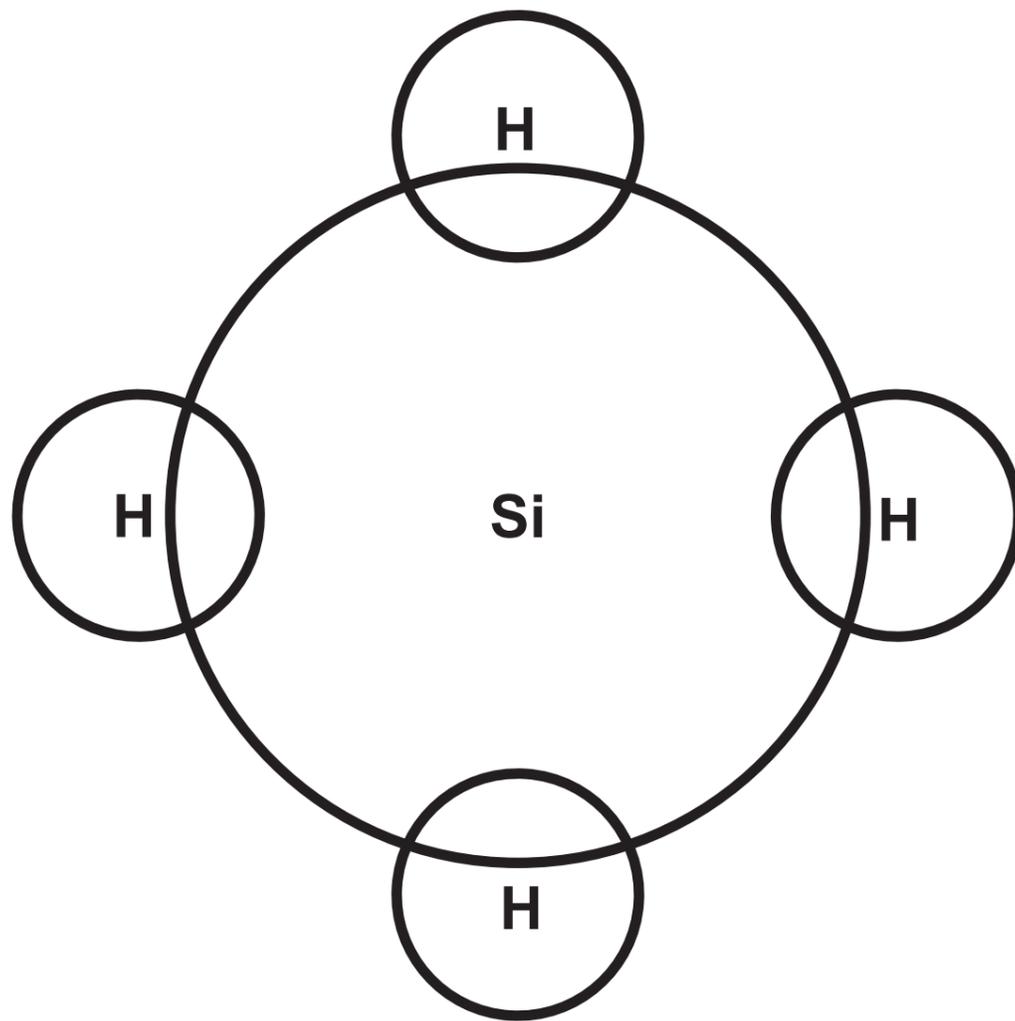
## Question 5(b)



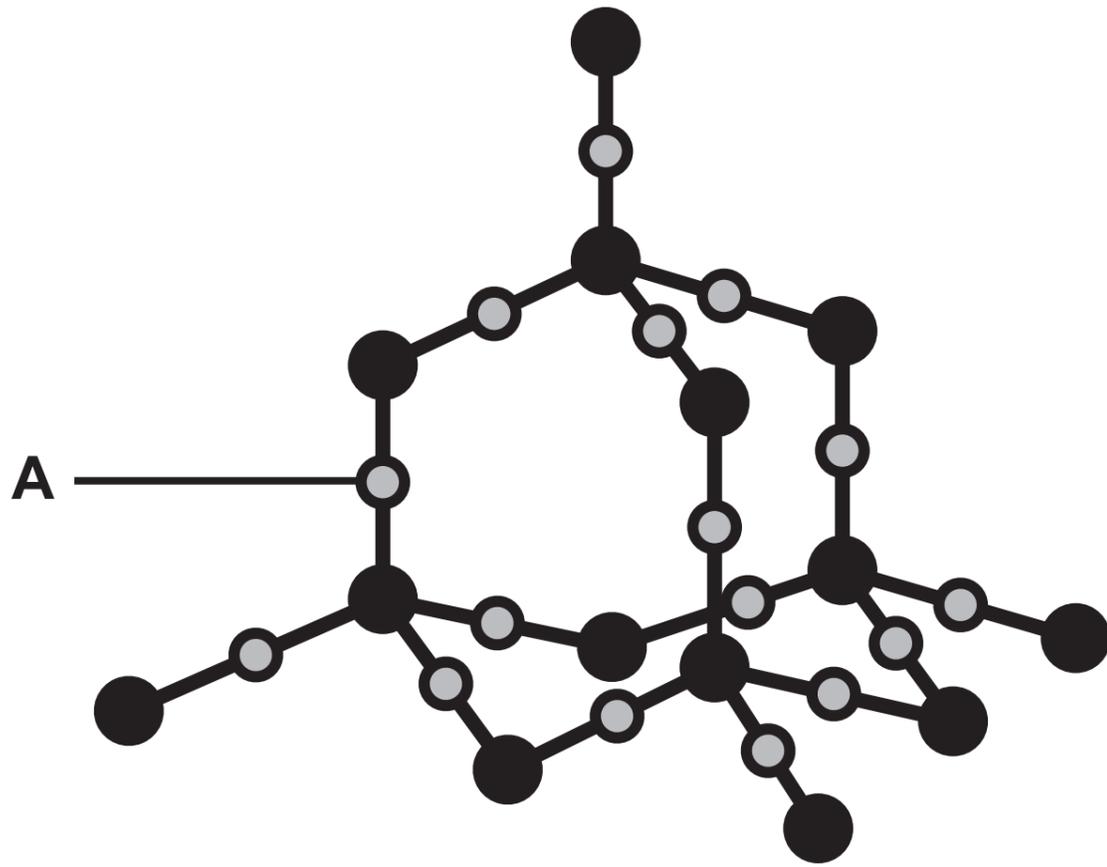
## Question 6(b)



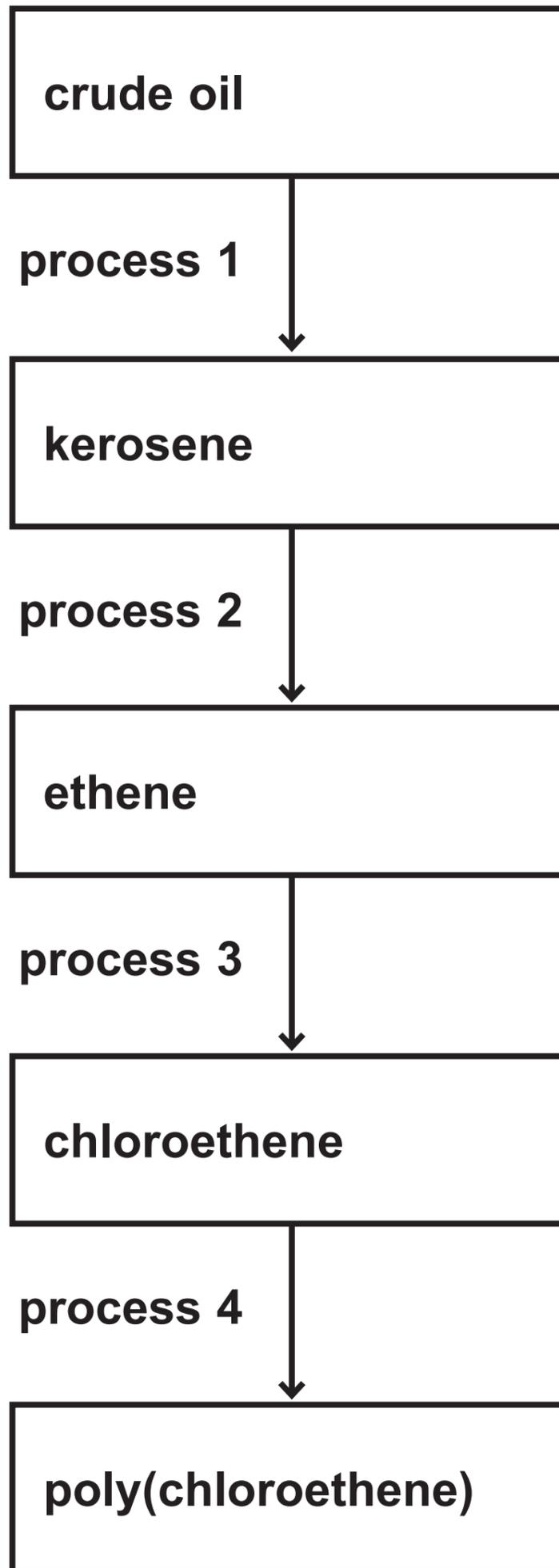
Question 6(b)



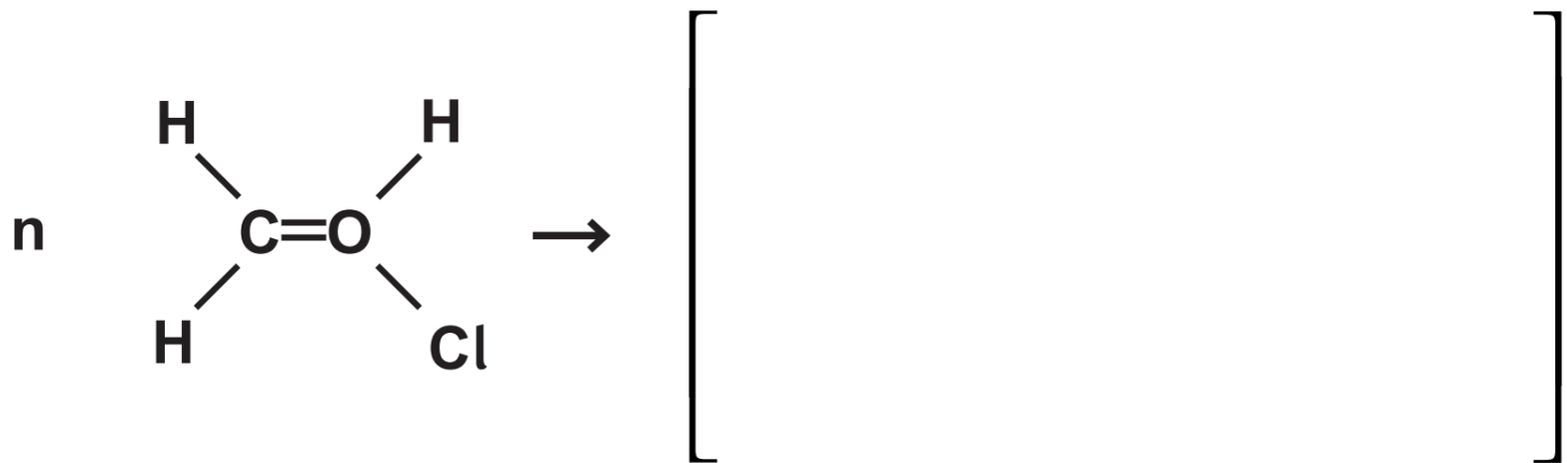
Question 6(c)



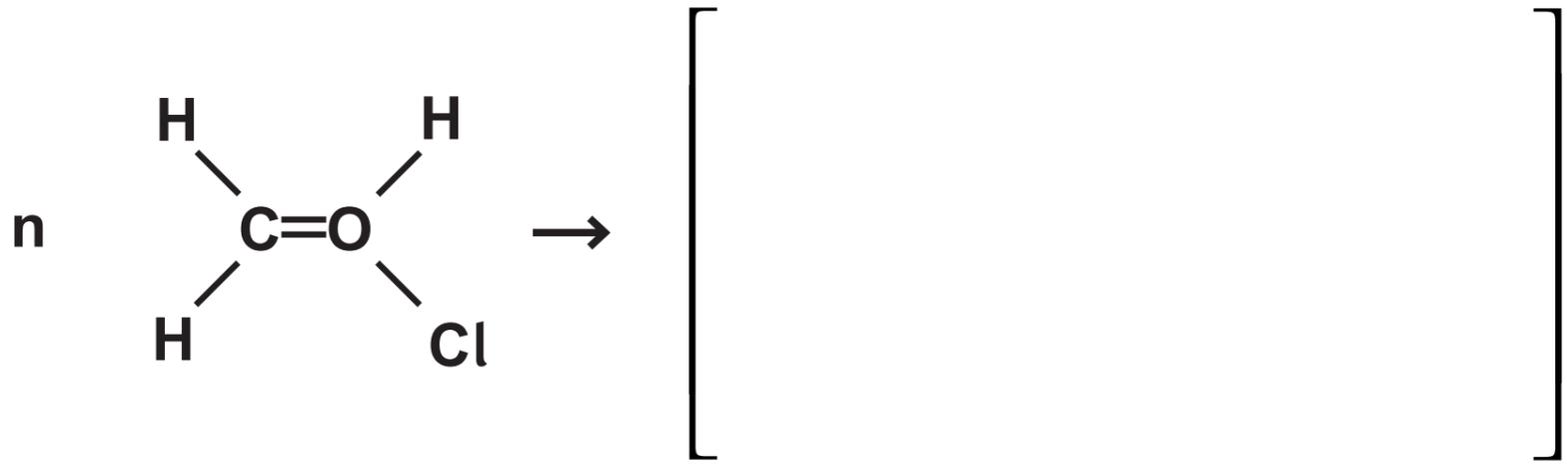
Question 7



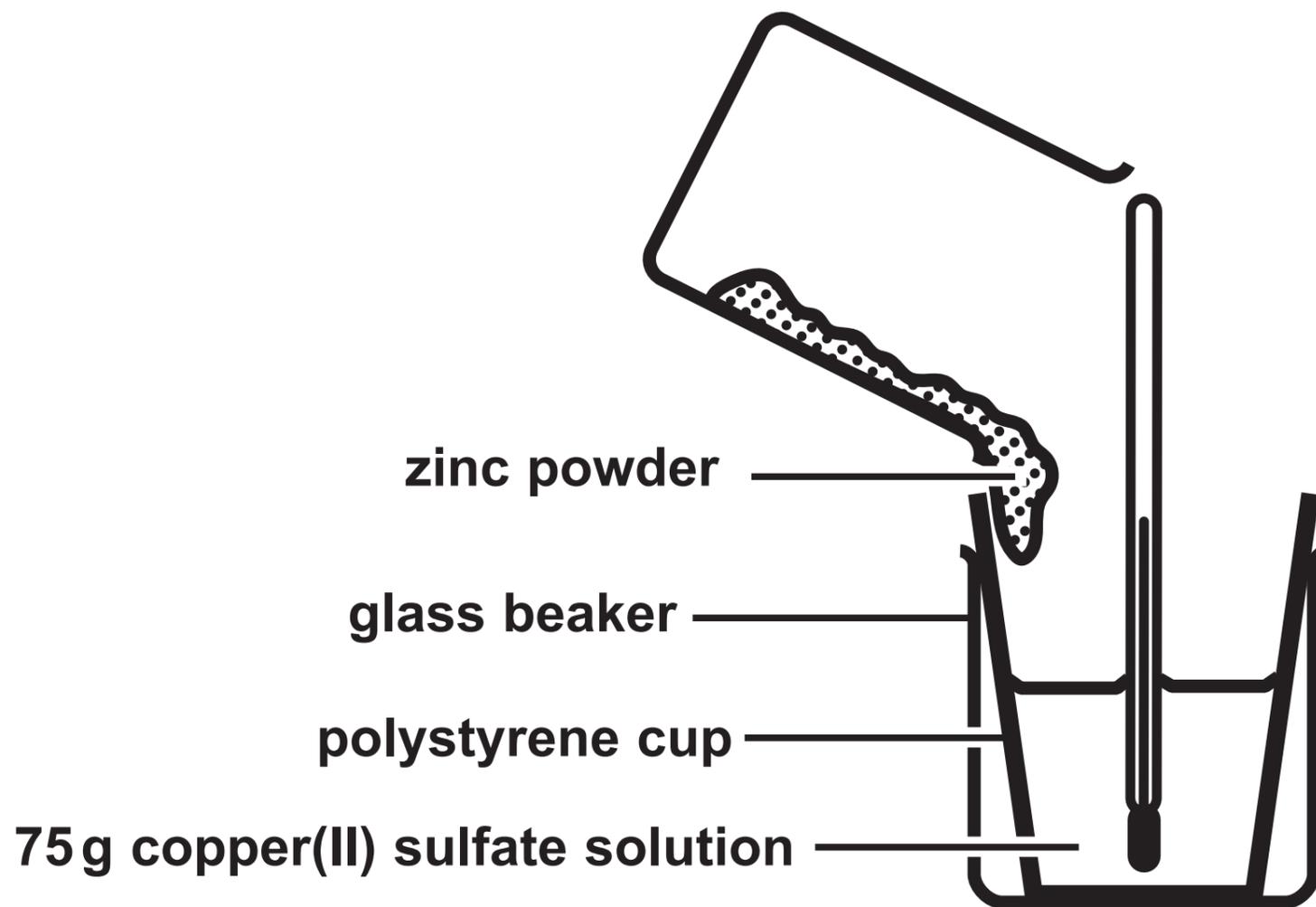
## Question 7(d)(i)



## Question 7(d)(i)



## Question 8(a)



## Question 9

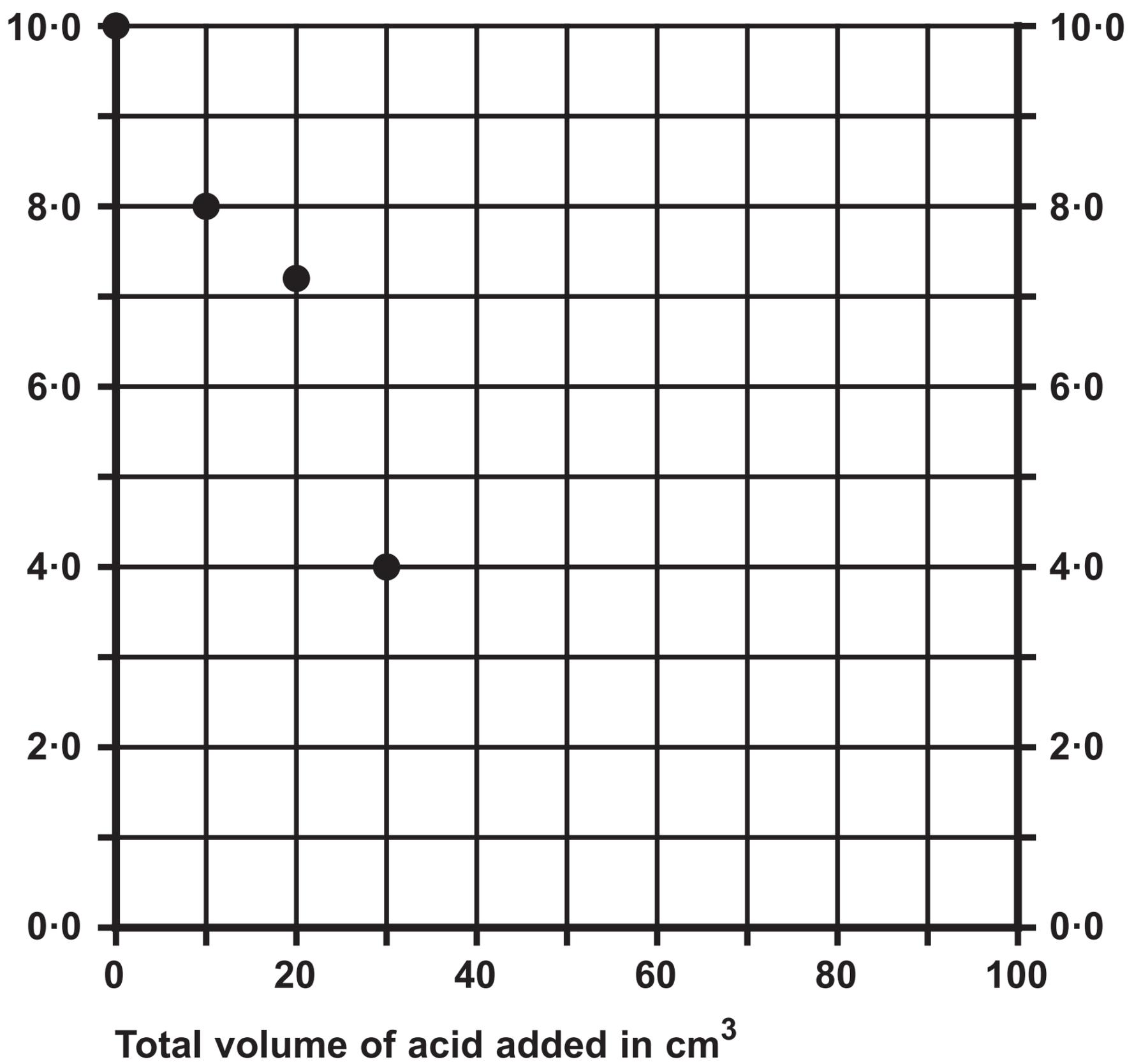
<b>Catalyst</b>	<b>Time for mixture to become colourless in s</b>
no catalyst	55
cobalt(II) chloride solution	32
copper(II) sulfate solution	8
iron(II) sulfate solution	27
zinc nitrate solution	75

## Question 10

<b>Total volume of acid added in cm<sup>3</sup></b>	<b>Electrical conductivity in arbitrary units</b>
0·0	10·0
10·0	8·0
20·0	7·2
30·0	4·0
40·0	2·0
50·0	0·0
60·0	1·4
70·0	2·8
80·0	4·2
90·0	5·6
100·0	7·0

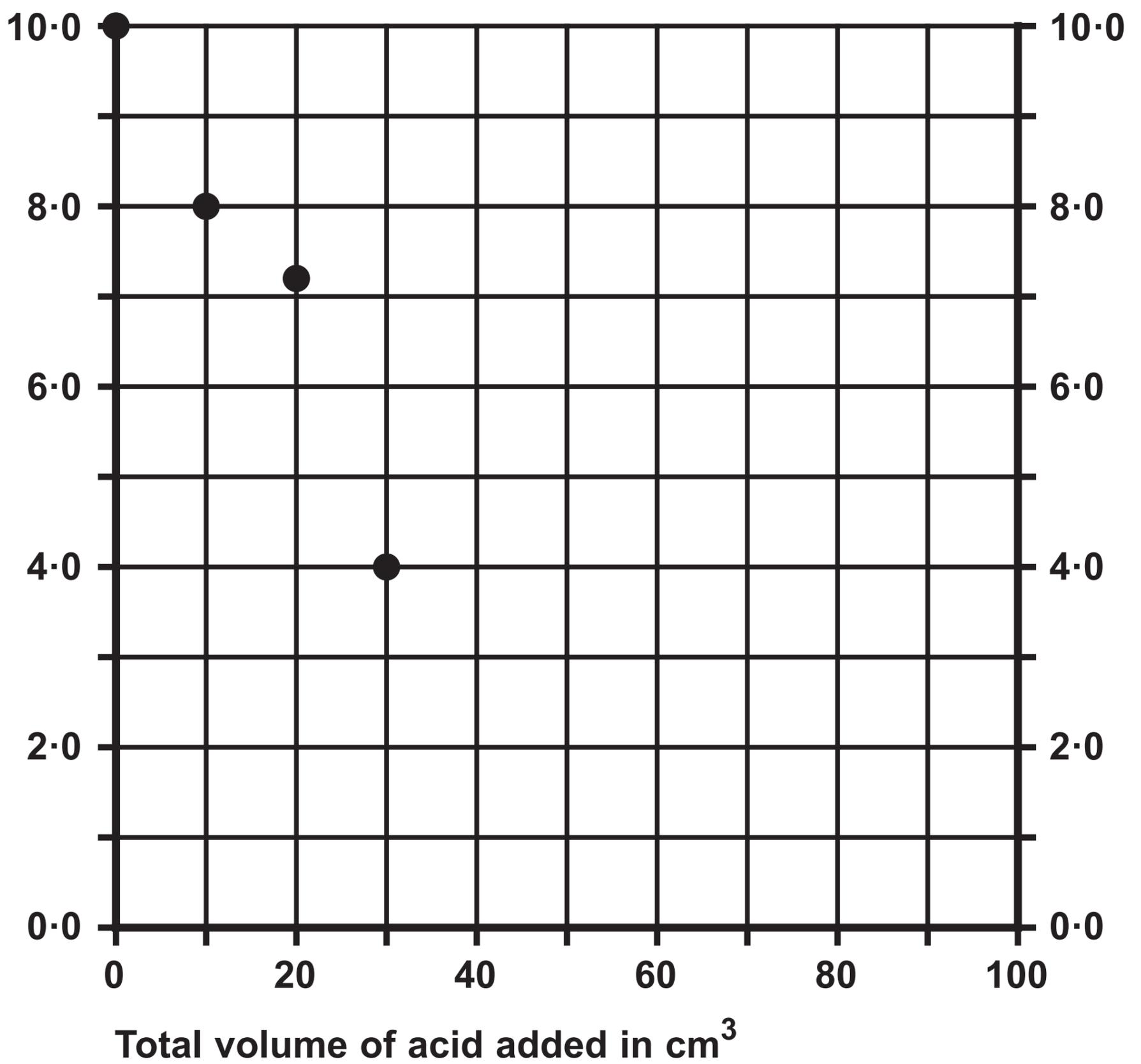
## Question 10(a)

Electrical  
conductivity in  
arbitrary units

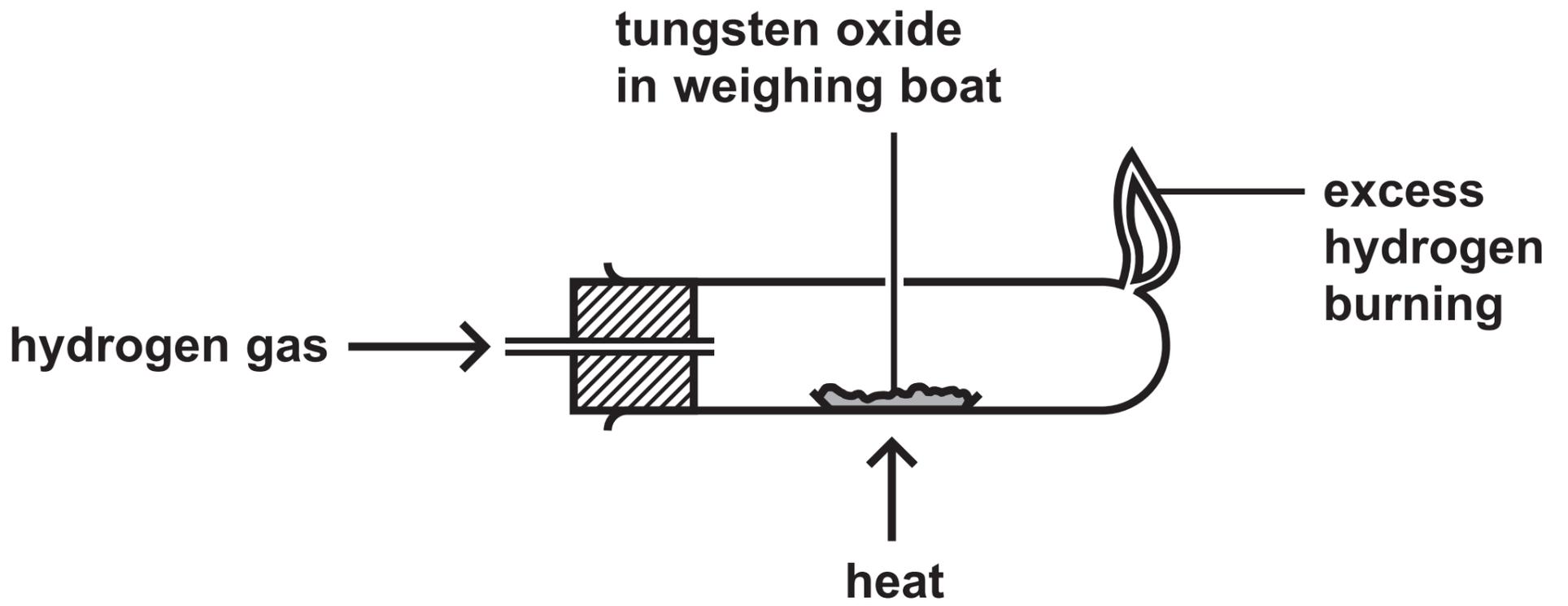


## Question 10(a)

Electrical  
conductivity in  
arbitrary units



## Question 11(a)



## Question 11(a)(iii)

	<b>Mass in g</b>
<b>empty weighing boat</b>	<b>14.72</b>
<b>weighing boat and tungsten oxide</b>	<b>17.04</b>
<b>weighing boat and tungsten</b>	<b>16.56</b>