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

Chemistry
UNIT: 4CH1
Science (Double Award) 4SD0
PAPER: 1C

Diagram Booklet

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

Surname					
Other names					
Centre Number					
Candidate Number					

X70945A

Pearson

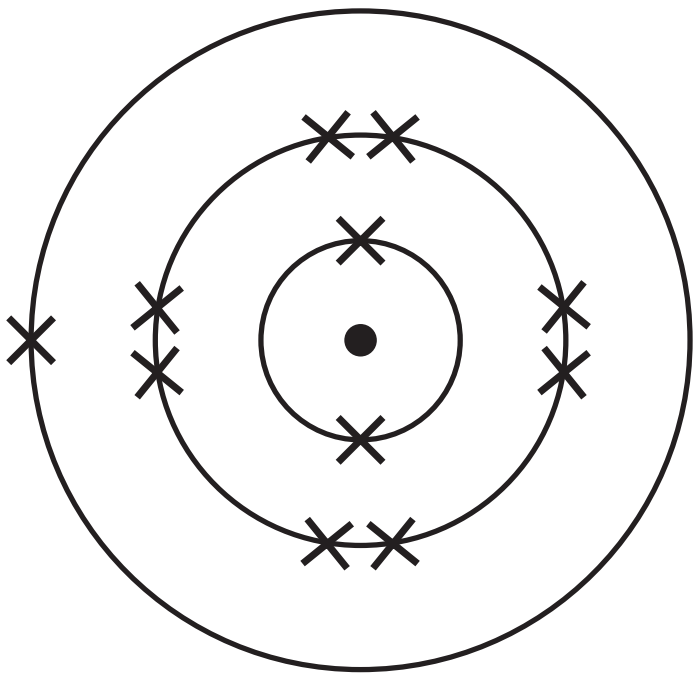
INSTRUCTIONS

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.

Contents

Question 1



Question 2(a)

Physical change	Change of state
water to ice	
steam to water	
solid wax to liquid wax	
iodine crystals to iodine vapour	

Question 2(a)

Physical change	Change of state
water to ice	
steam to water	
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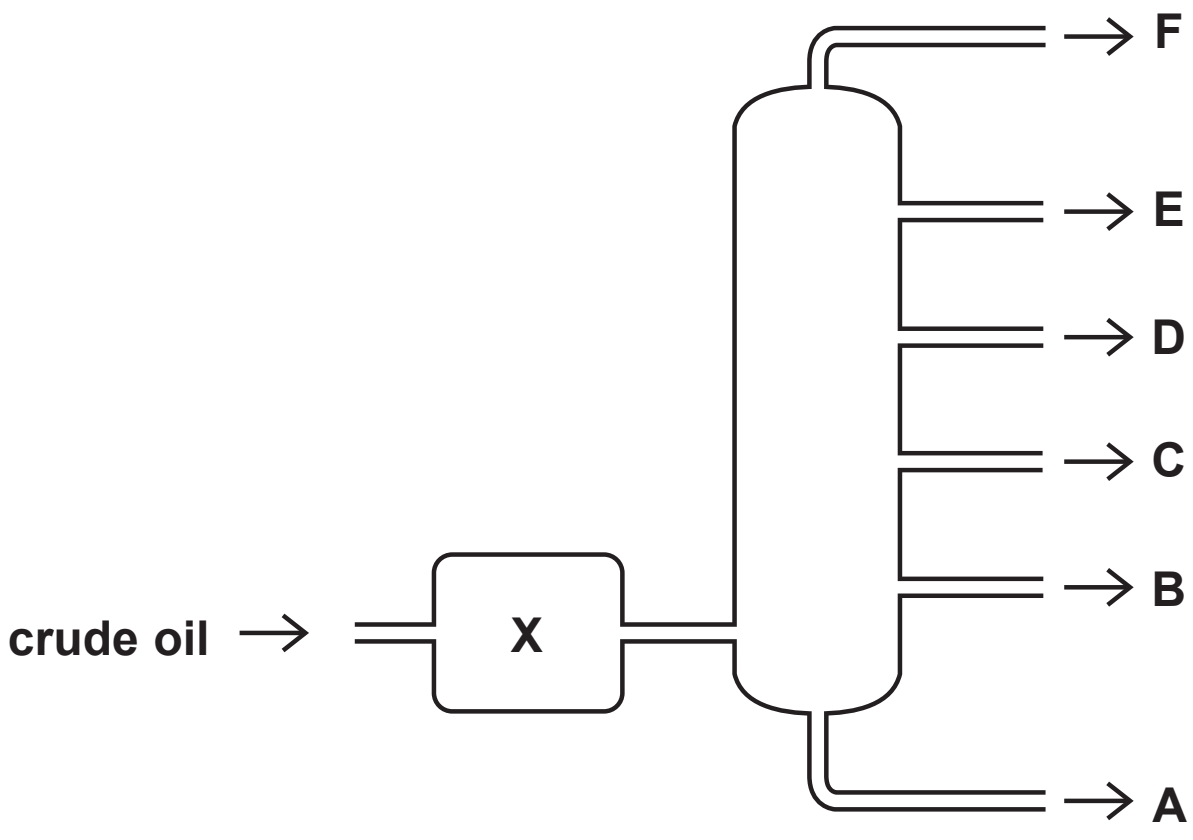
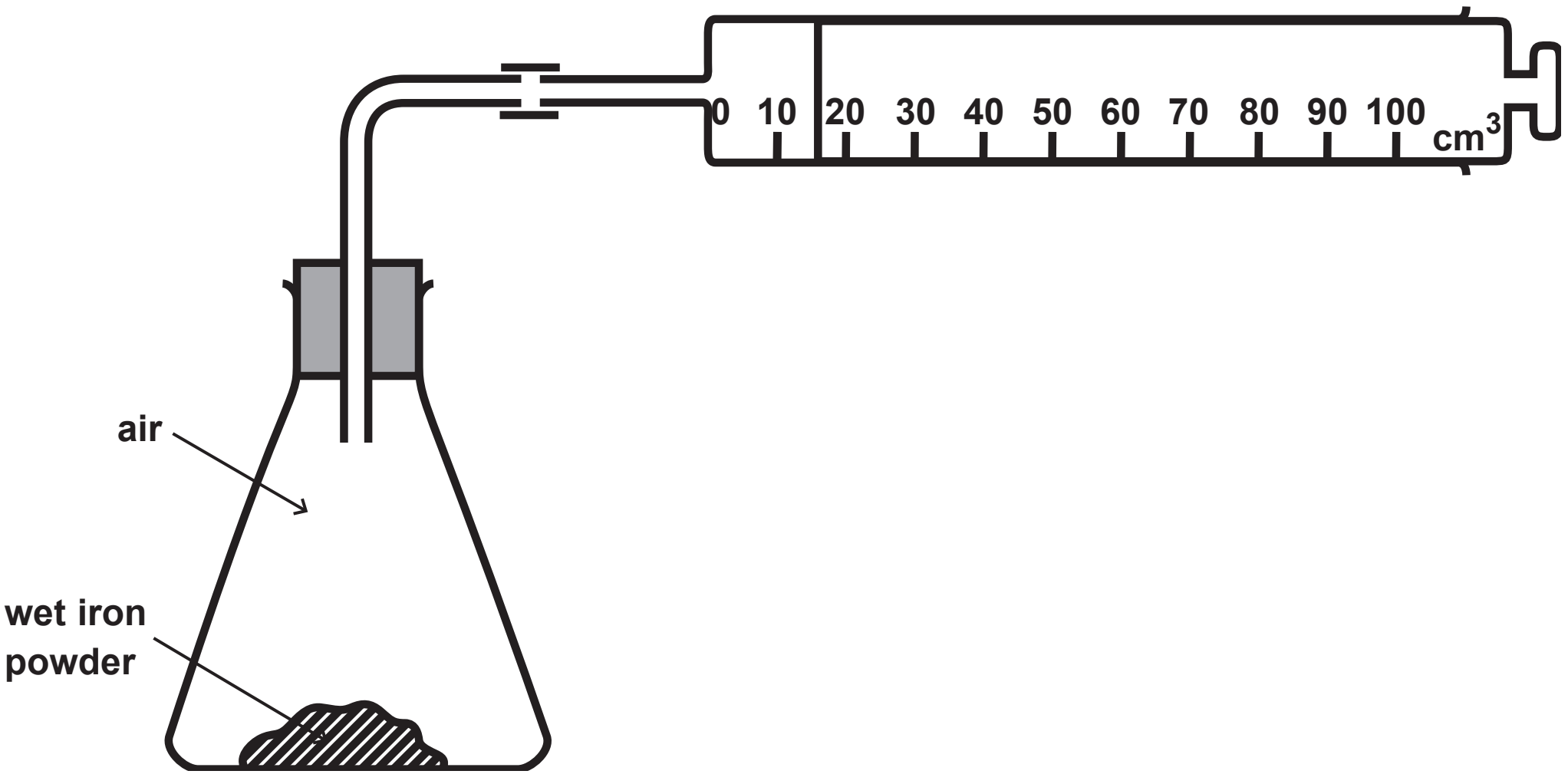
Question 3(a)



Question 4(a)



Question 4(b)

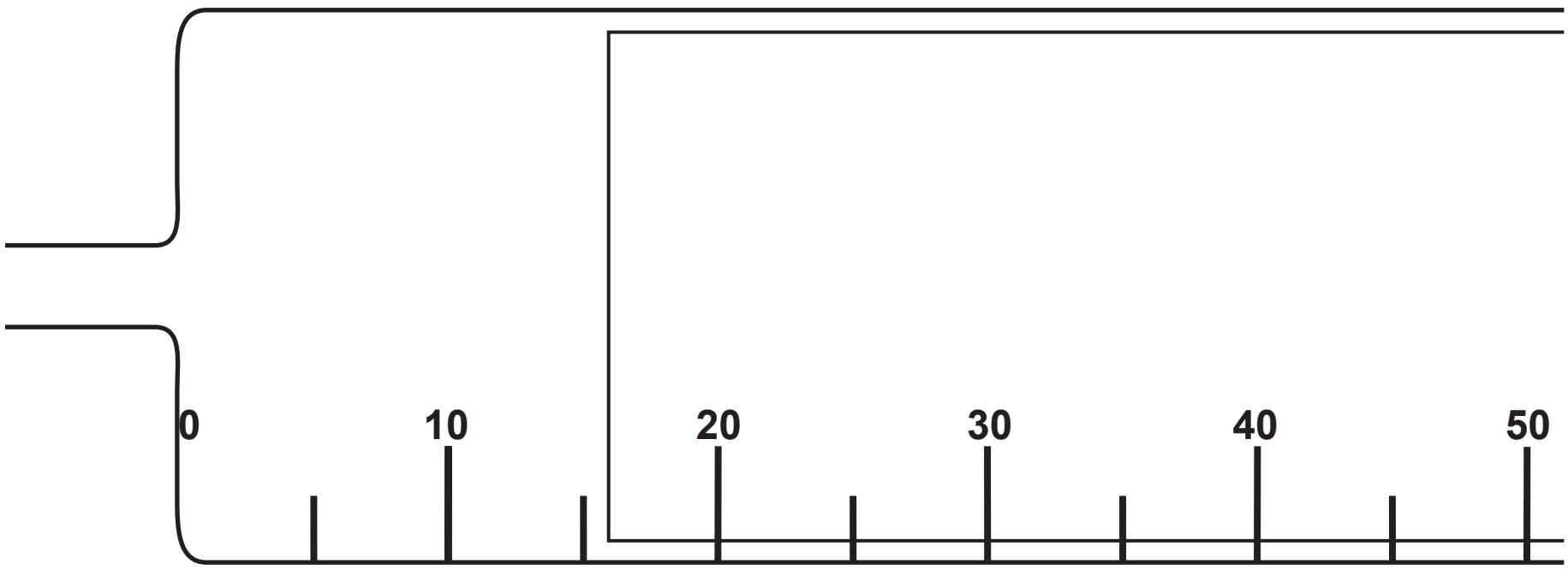


TABLE 1

syringe reading at start	
syringe reading at end	
change in volume in cm^3	**65**

Question 4(b)

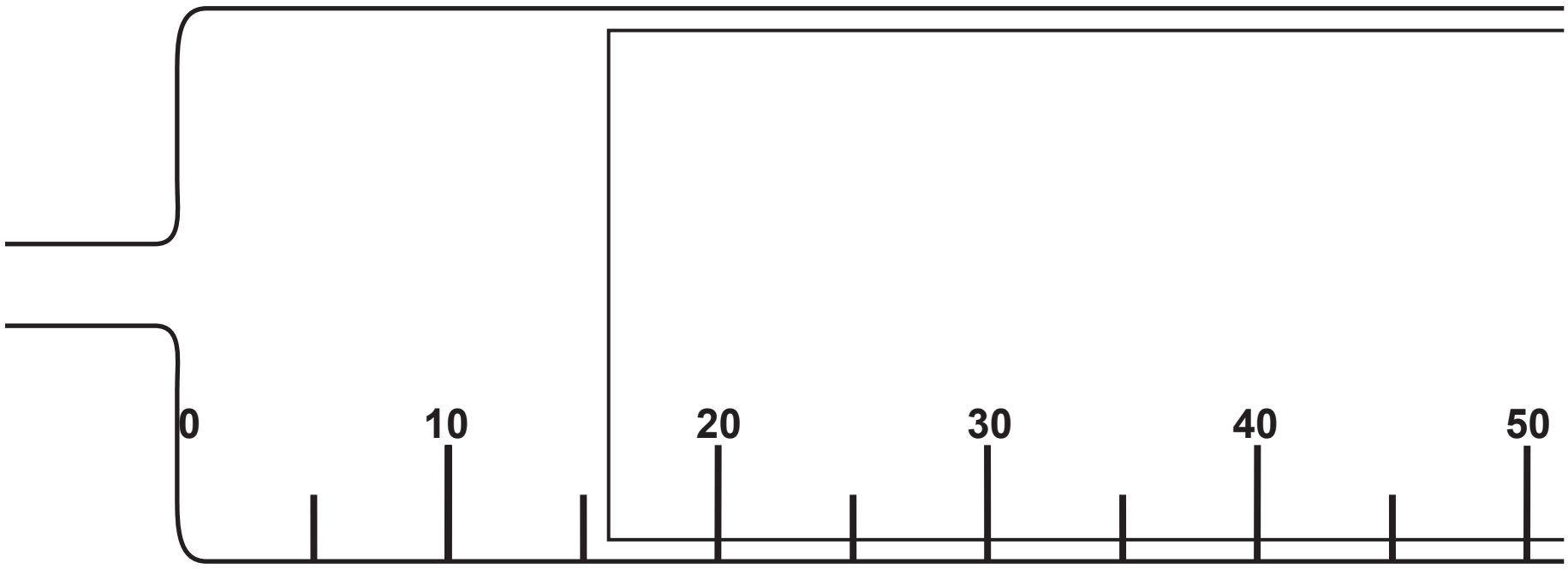


TABLE 1

syringe reading at start	
syringe reading at end	
change in volume in cm^3	**65**

Question 4(c)

TABLE 2

volume of air in conical flask and glass tube in cm^3	**260**
syringe reading at start	**90**
syringe reading at end	**22**

Question 5(a)(iv)

Isomer 1

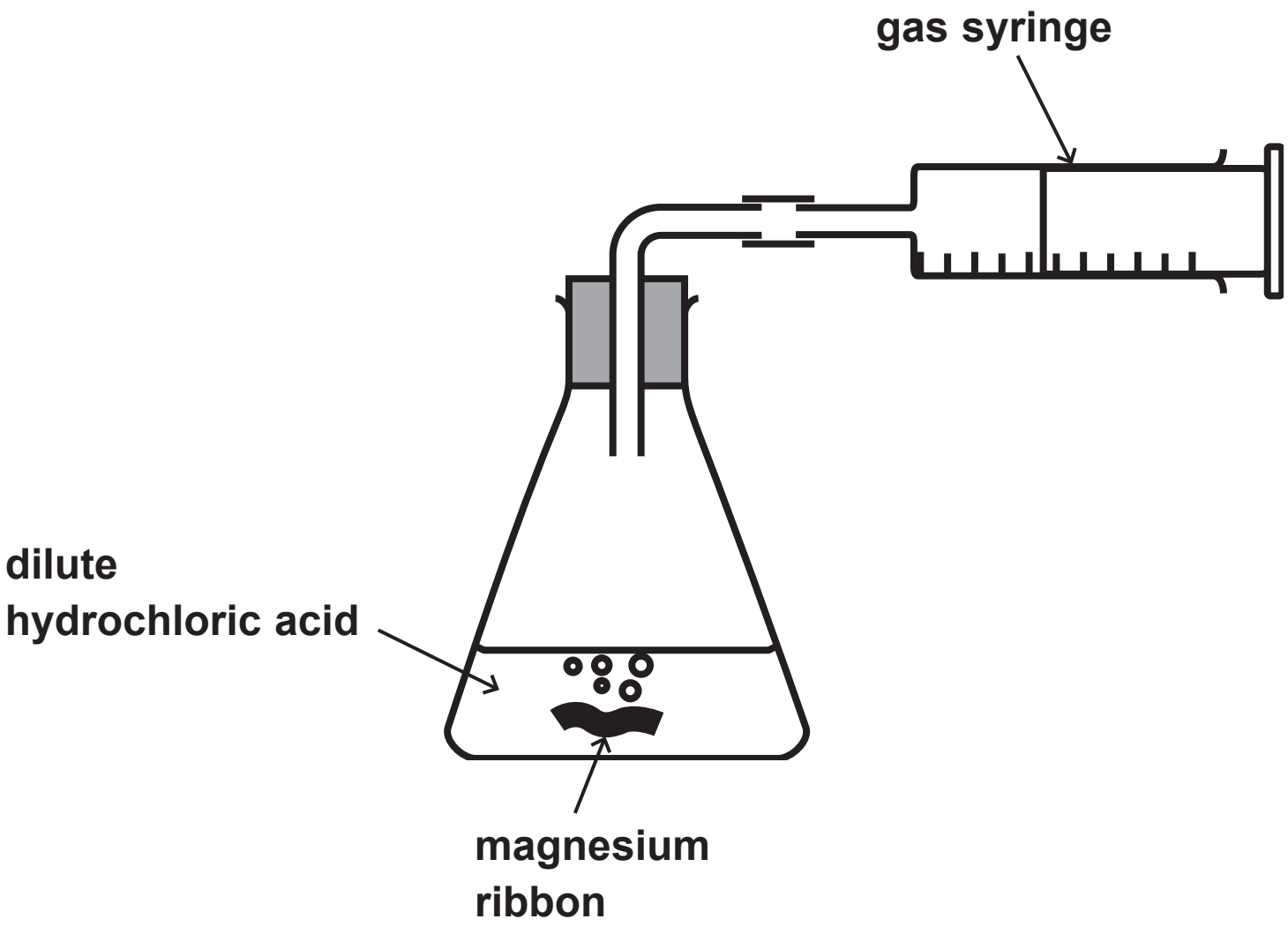
Isomer 2

Question 5(a)(iv)

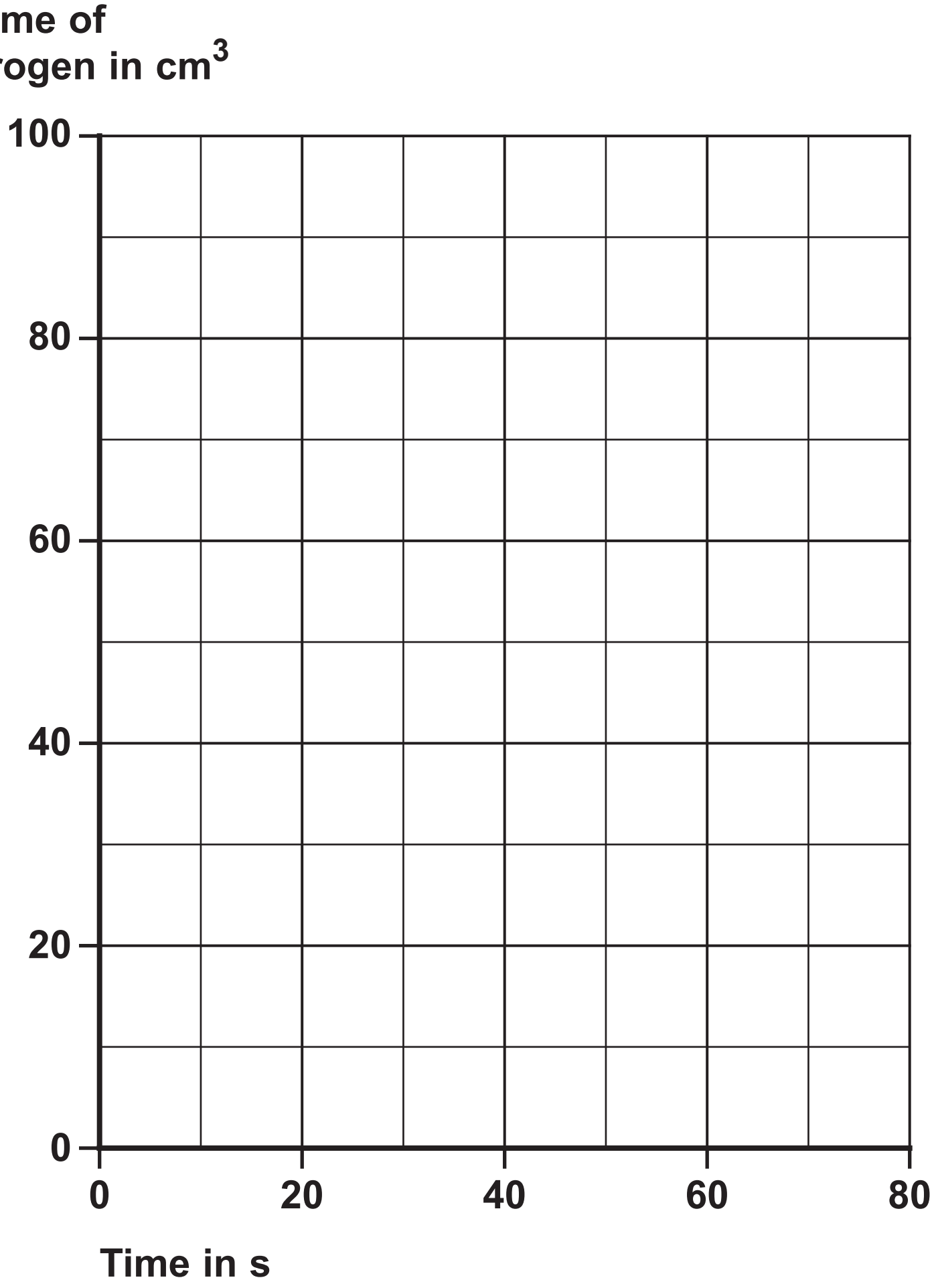
Isomer 1

Isomer 2

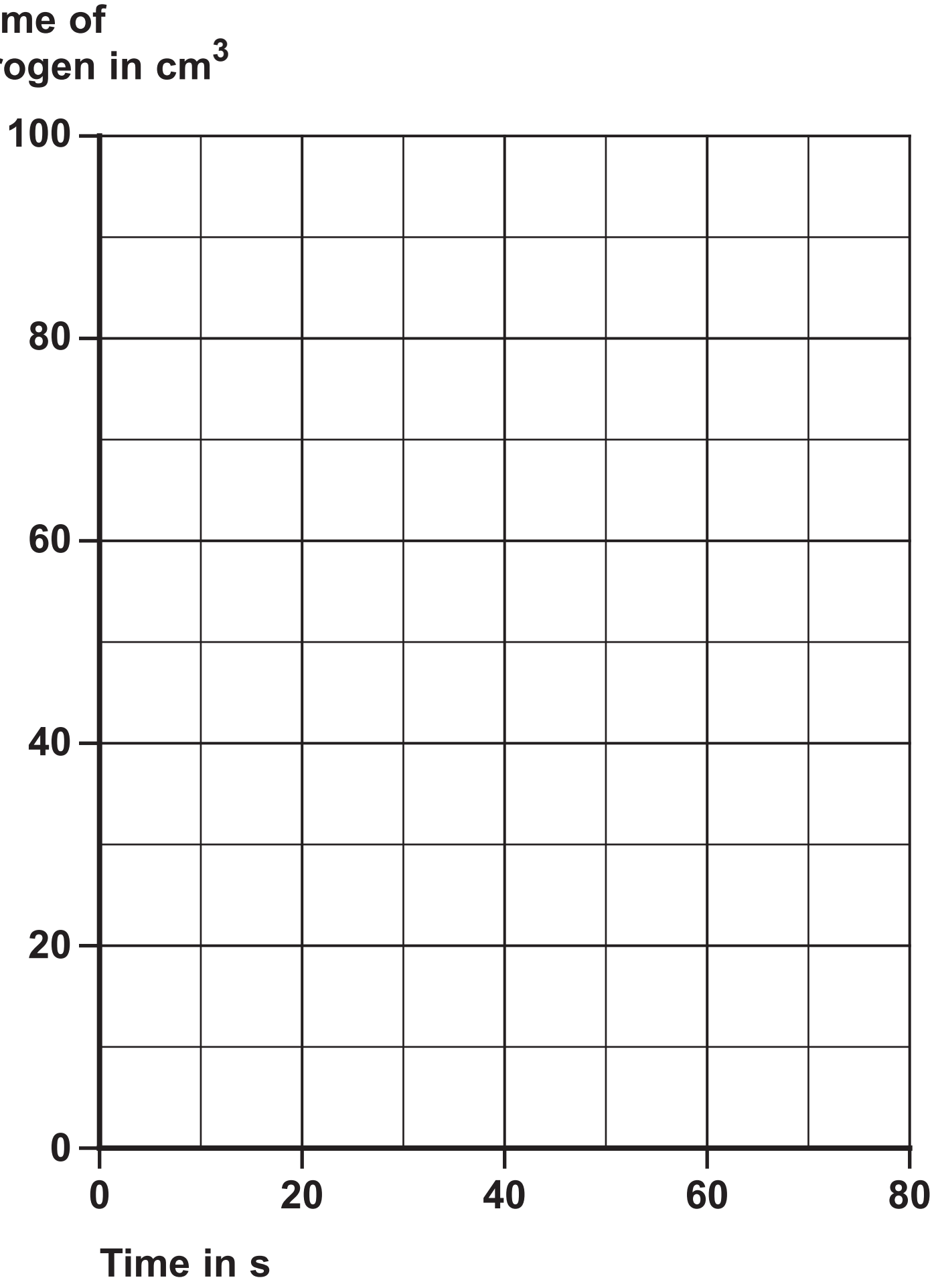
Question 6



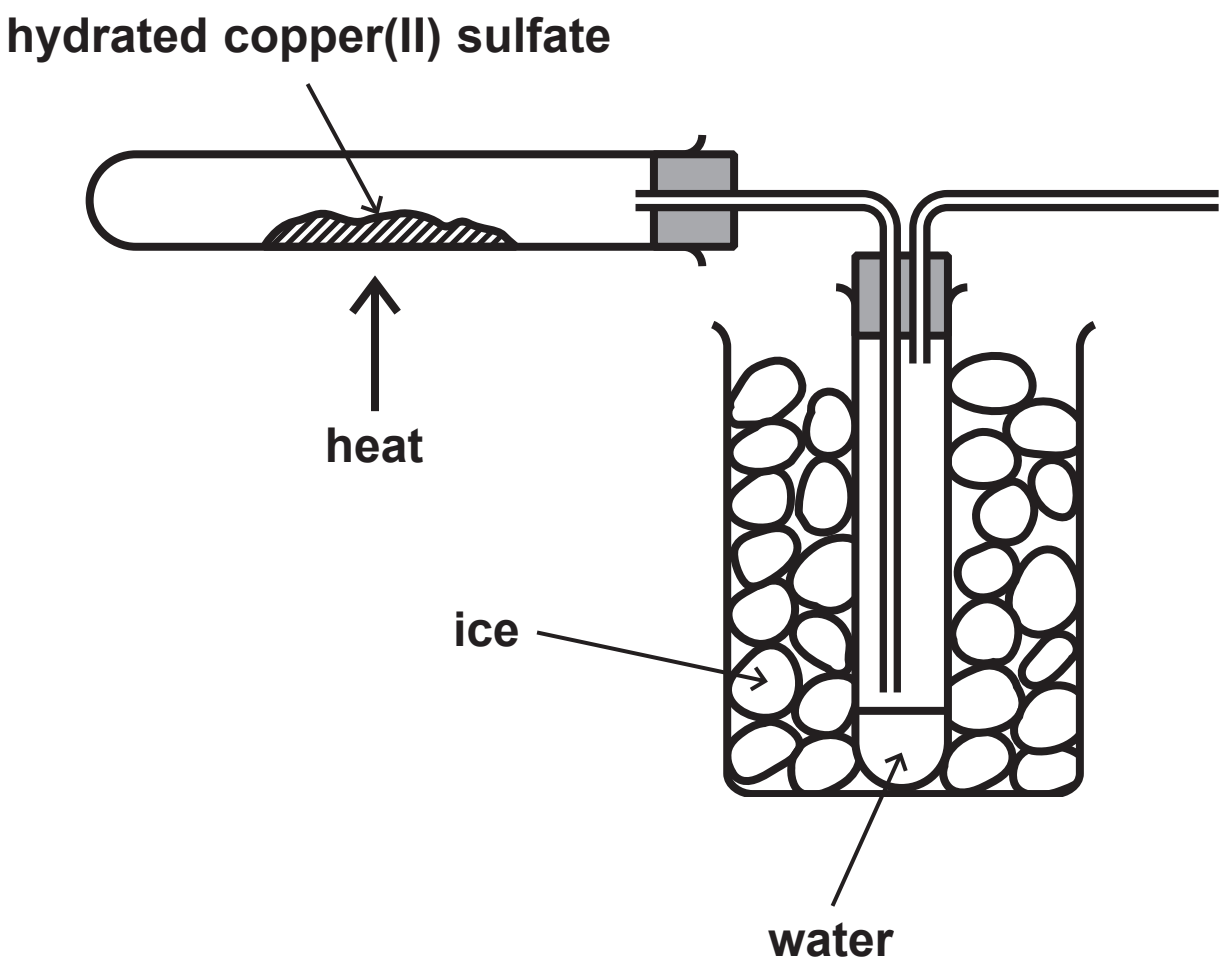
Question 6(b) and 6(c)



Question 6(b) and 6(c)



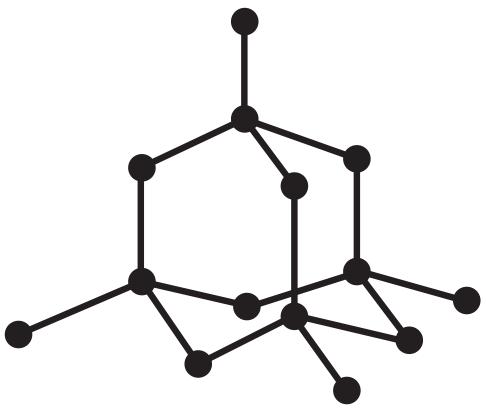
Question 7(c)



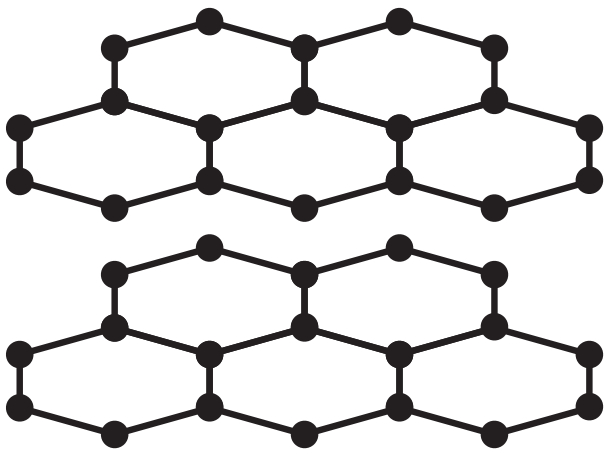
mass of empty tube in g	20·52
mass of tube and $CuSO_4.xH_2O$ in g	31·77
mass of tube and $CuSO_4$ in g	28·20

Question 8(a)

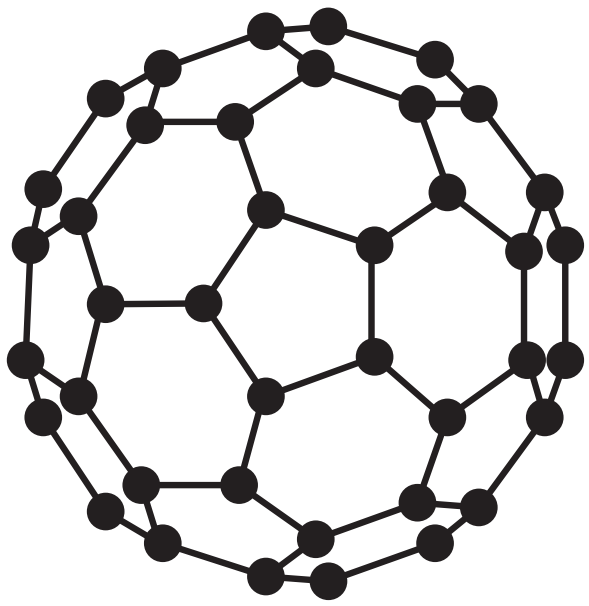
Diamond



Graphite



Question 8(b)



Substance	Approximate melting point in °C
diamond	4000
graphite	3600
C_{60} fullerene	600

Question 10(b)

Name	**ammonium sulfate**		**ammonium carbonate**
Formula	$(NH_4)_2SO_4$	NH_4Cl	

Question 10(b)

Name	**ammonium sulfate**		**ammonium carbonate**
Formula	$(NH_4)_2SO_4$	NH_4Cl	

Question 10(c)

Name	Formula	Percentage of nitrogen (%)	Approximate pH in solution
ammonia	$NH_3(g)$	82	11
ammonium nitrate	$NH_4NO_3(s)$		5·5
ammonium sulfate	$(NH_4)_2SO_4(s)$	21	5·5