

Paper Reference(s) 1CH0/2H
Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Chemistry
PAPER 2
Higher Tier

Tuesday 13 June 2023 – Morning

Diagram Booklet

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

Surname					
Other names					
Centre Number					
Candidate Number					

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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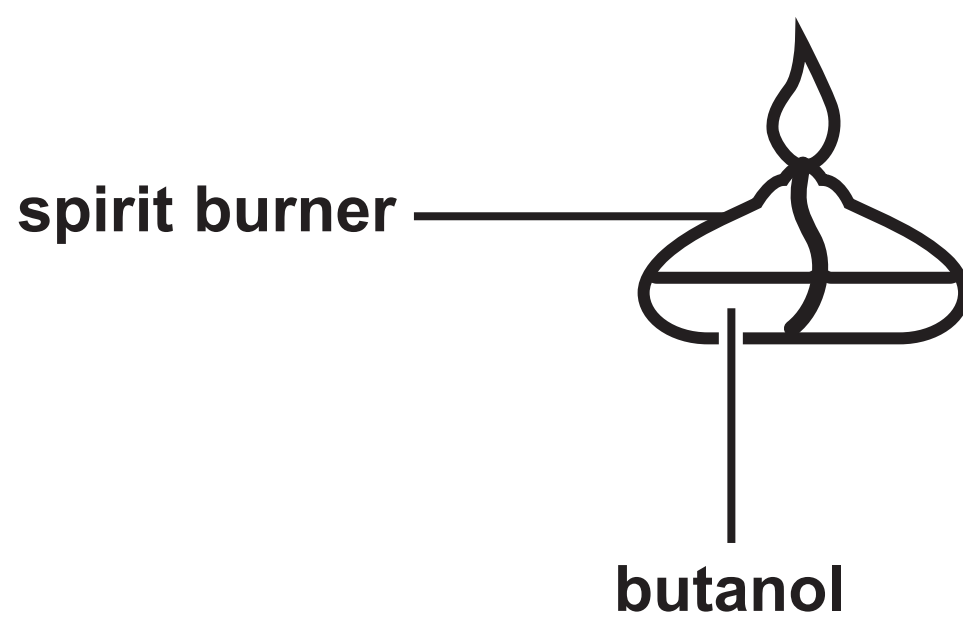
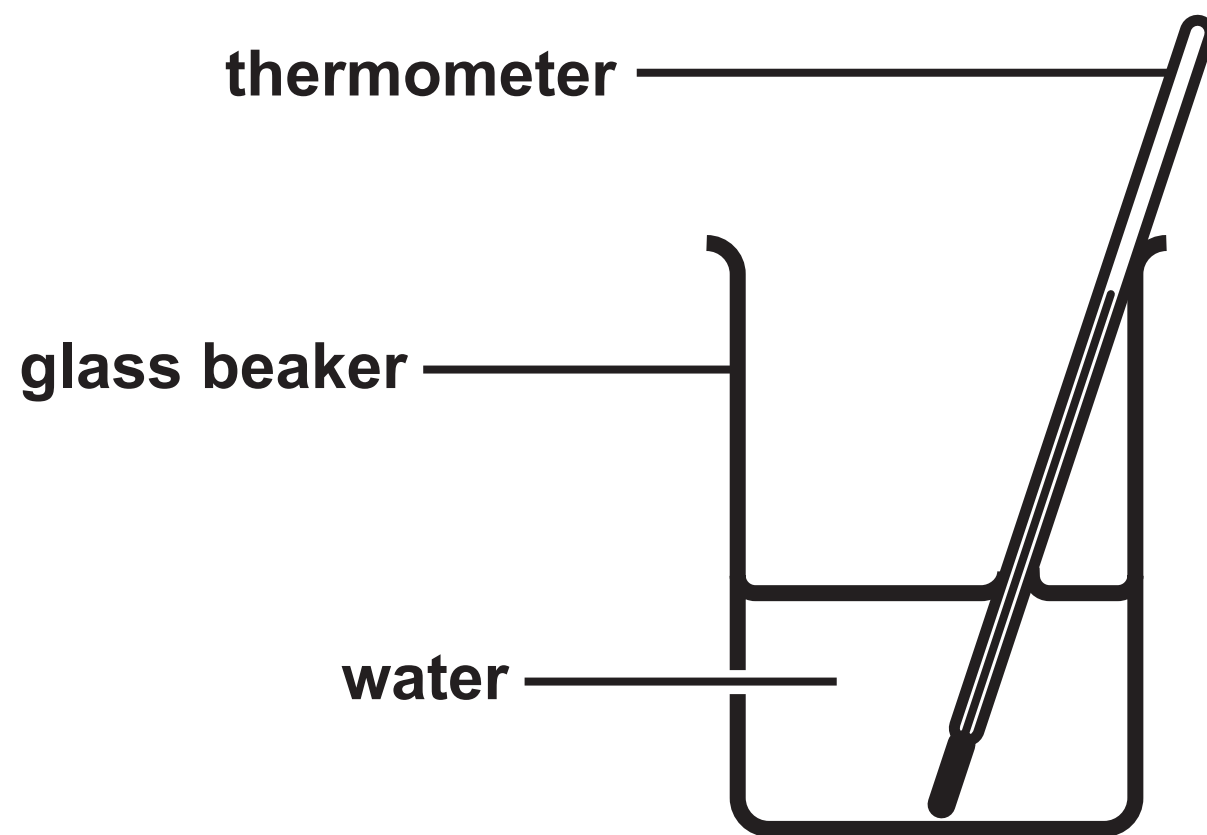
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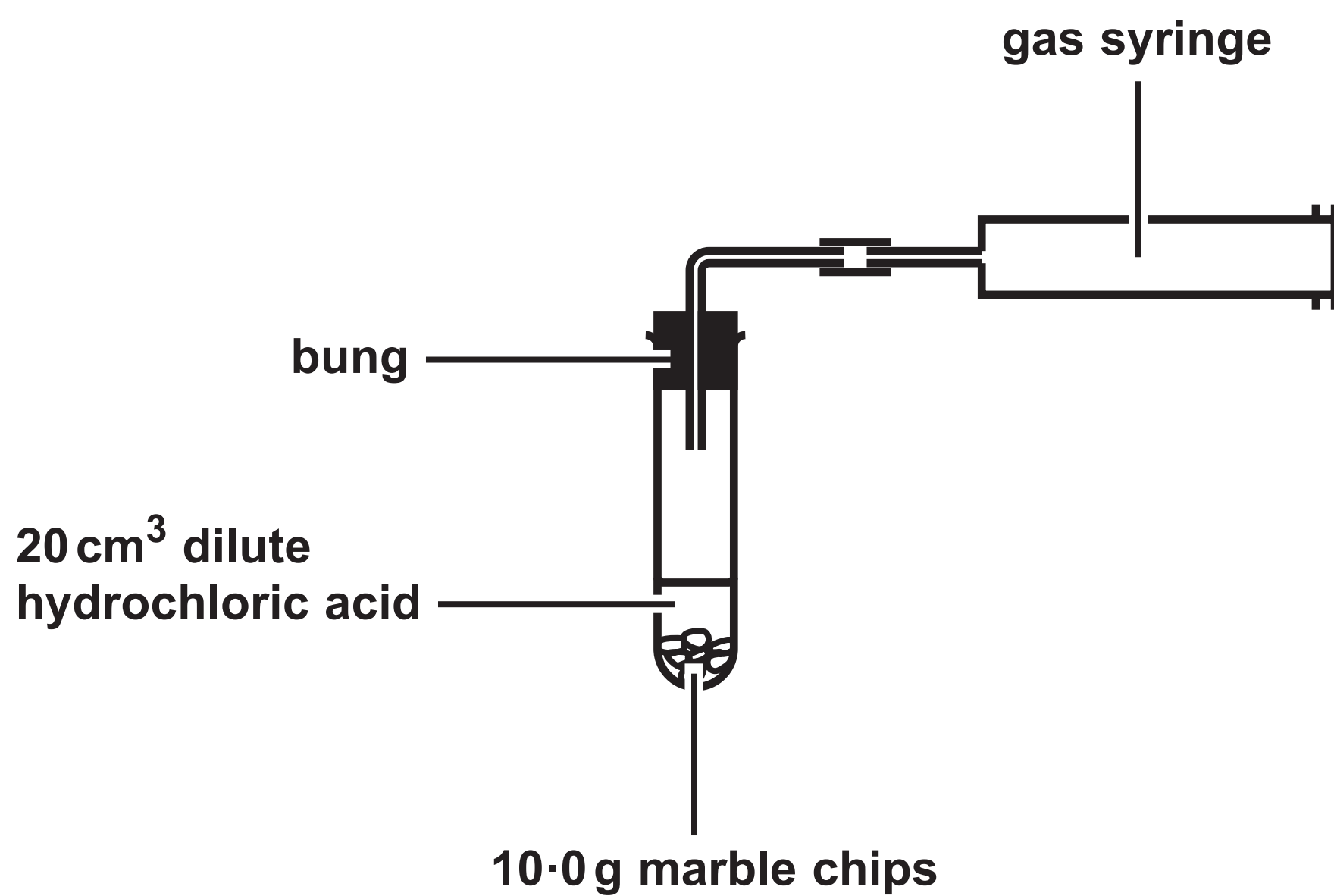
Question 1

FIGURE 1



Question 2

FIGURE 3



Question 2(a) and 2(c)

volume of
gas in cm³

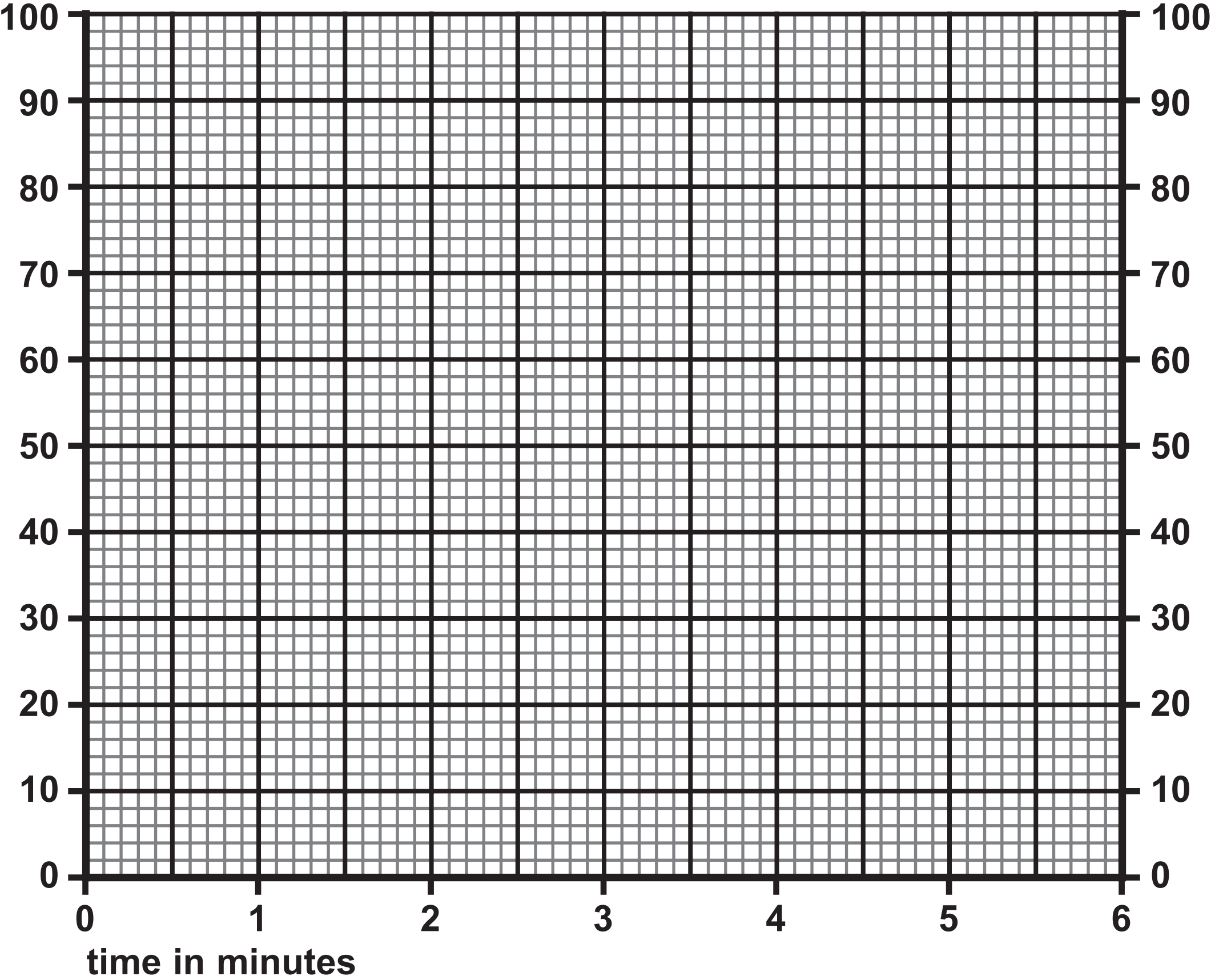


FIGURE 5

time interval	0 to 1 minute	1 to 2 minutes	2 to 3 minutes	3 to 4 minutes	4 to 5 minutes
rate of reaction in $\text{cm}^3 \text{min}^{-1}$	52	26		6	3

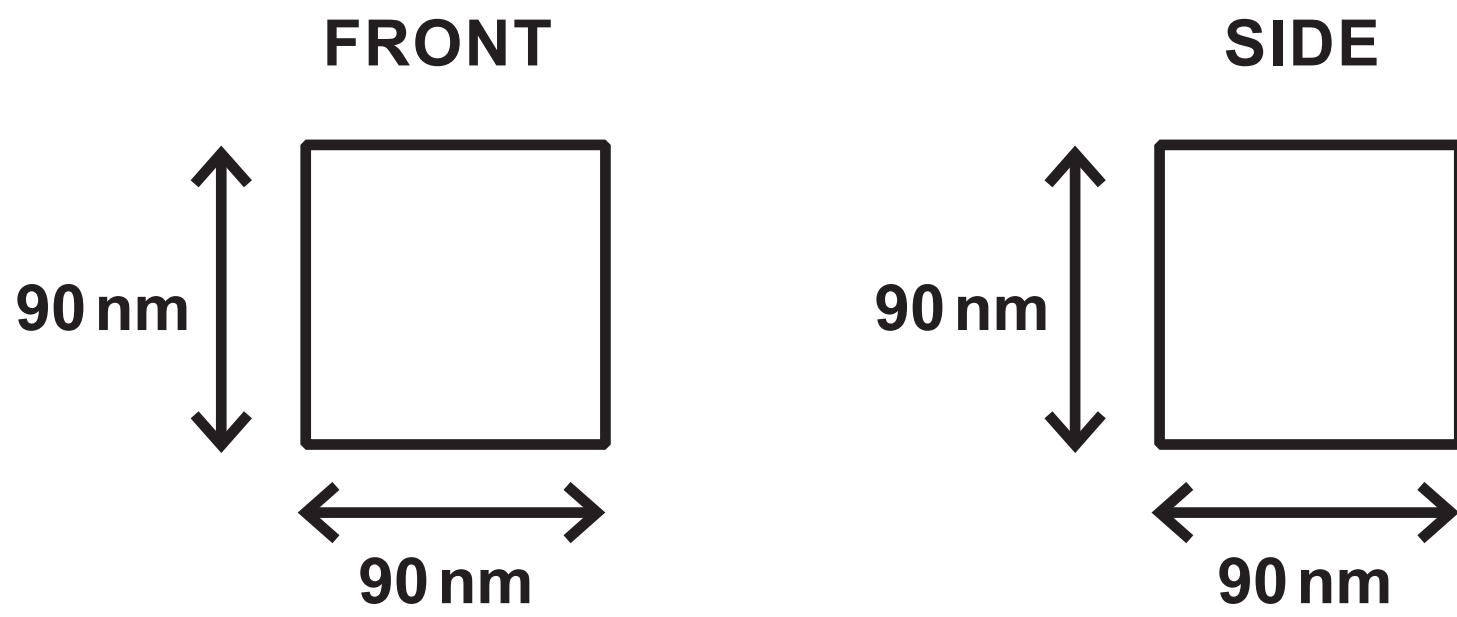
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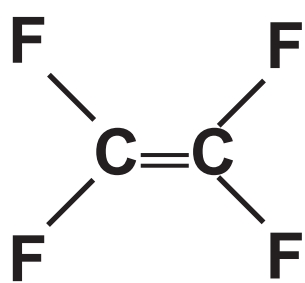
FIGURE 6

group 1 metal	atomic number	relative atomic mass
lithium	3	7
sodium	11	23
potassium	19	39
rubidium	37	85
caesium	55	133

Question 4(b)

FIGURE 7

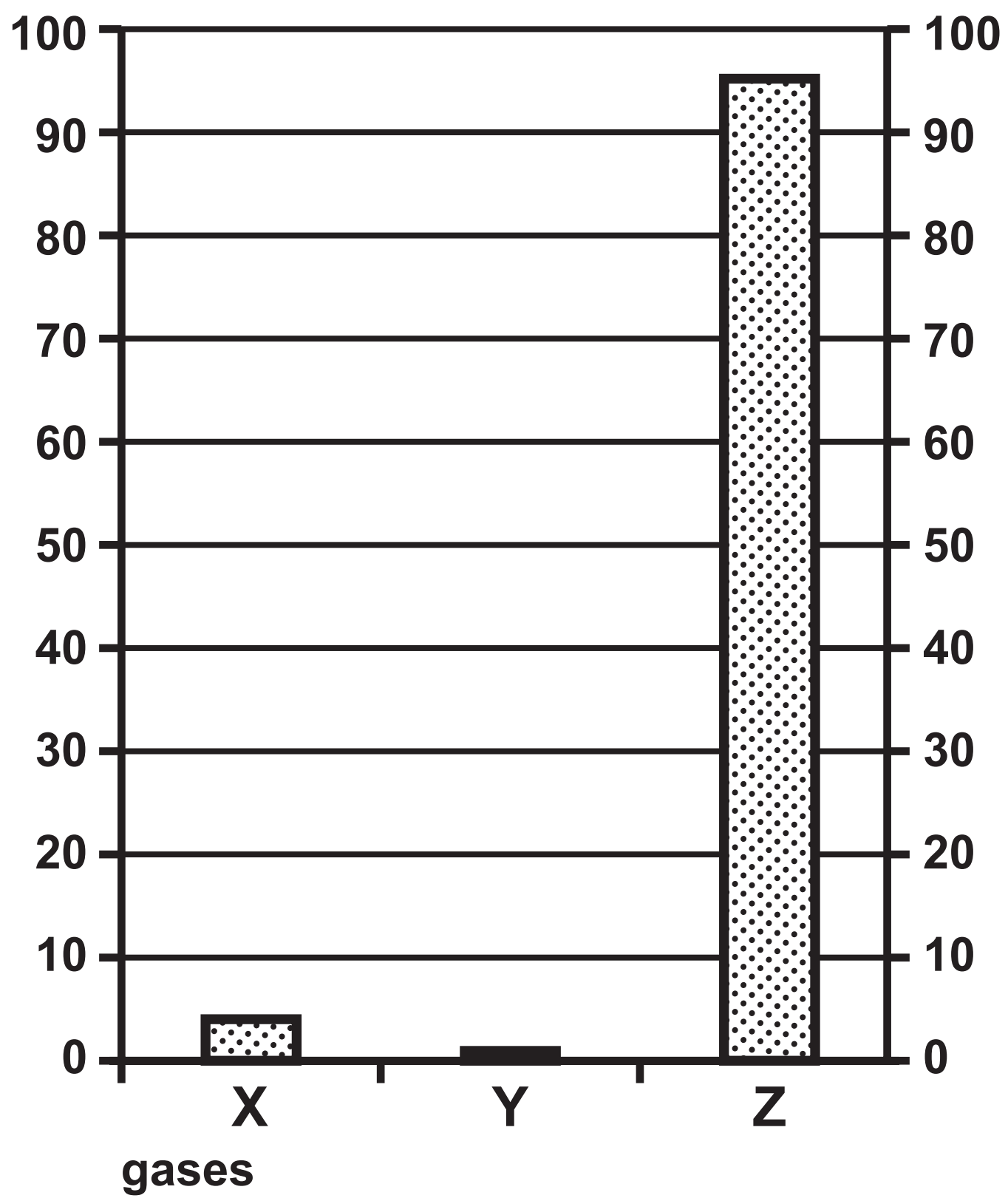


Question 4(c)**FIGURE 8**

Question 5(a)

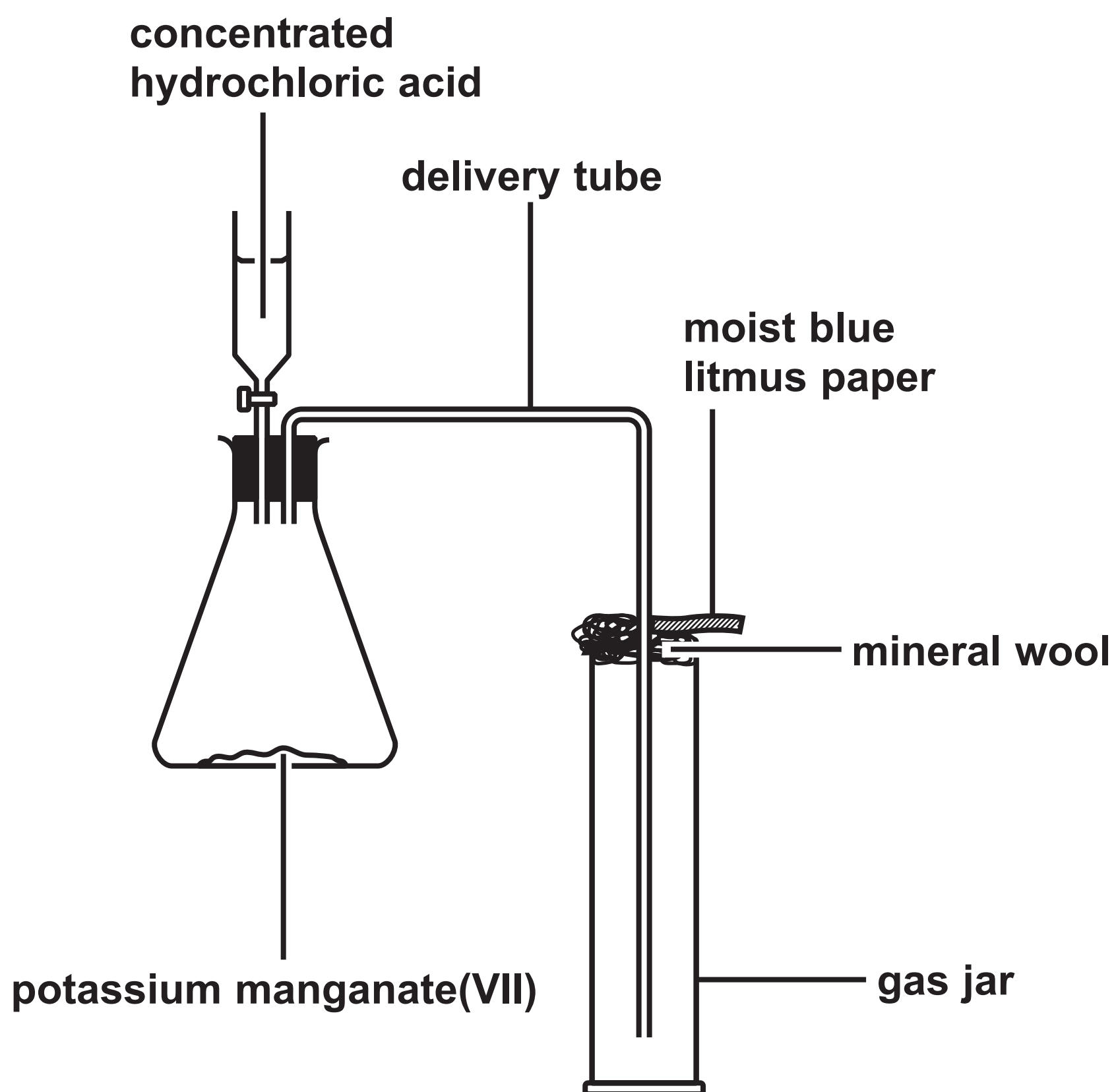
FIGURE 9

percentage of gas in
Earth's early atmosphere











Question 6

FIGURE 10



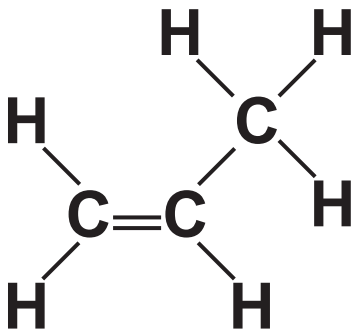
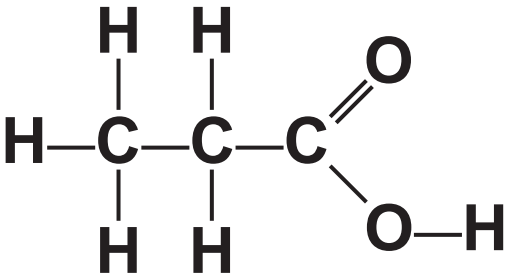
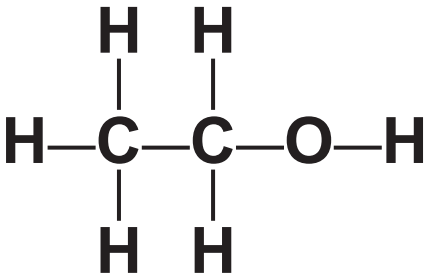
Question 6(a)

FIGURE 11

substance	hazard symbol
concentrated hydrochloric acid	 
potassium manganate(VII)	  
chlorine gas	  

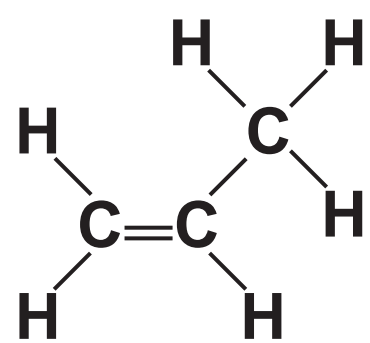
Question 7(a)(i)

FIGURE 12

propene	propanoic acid	ethanol
		

Question 7(a)(ii)

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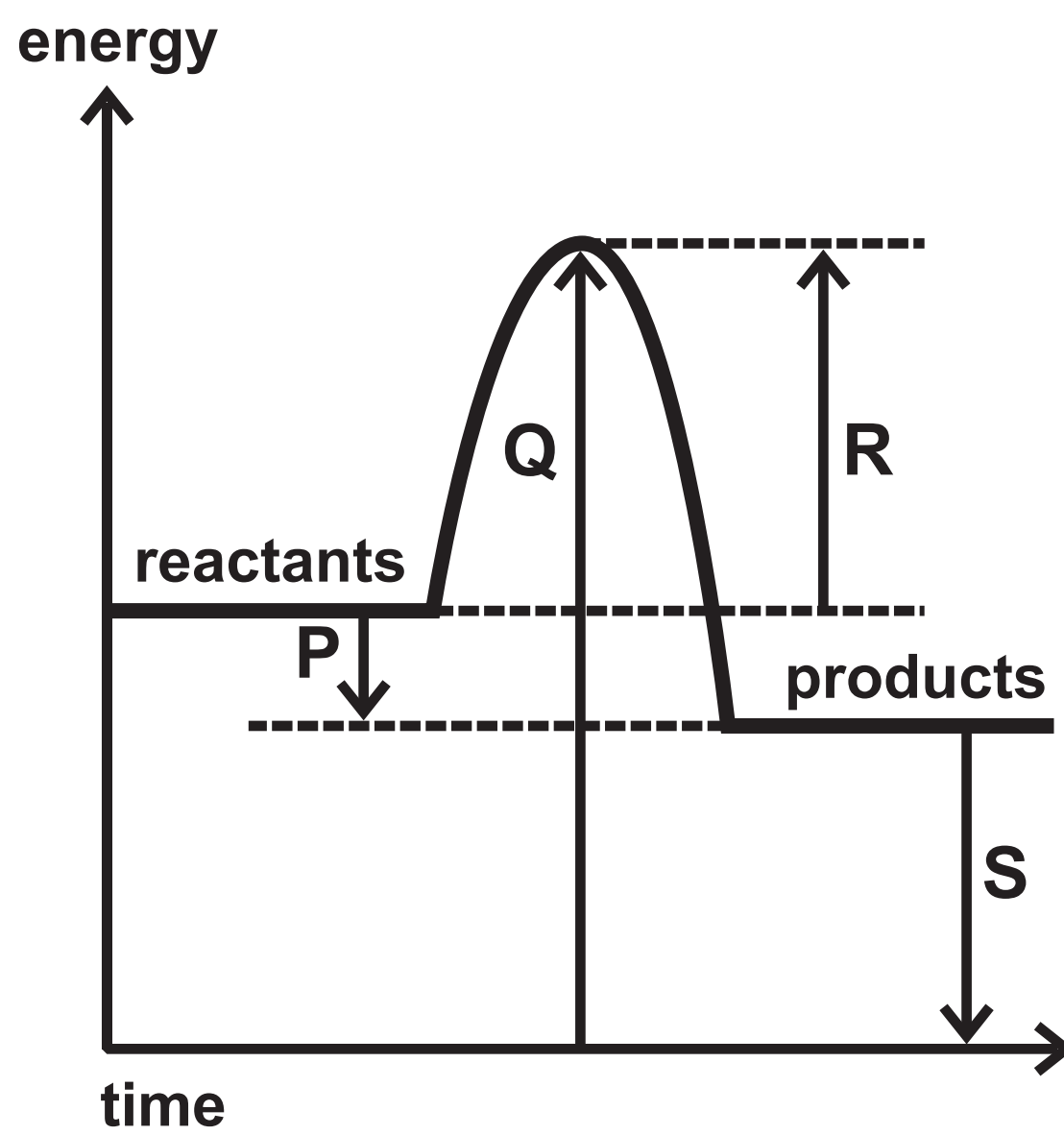
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Question 8(b)

FIGURE 13



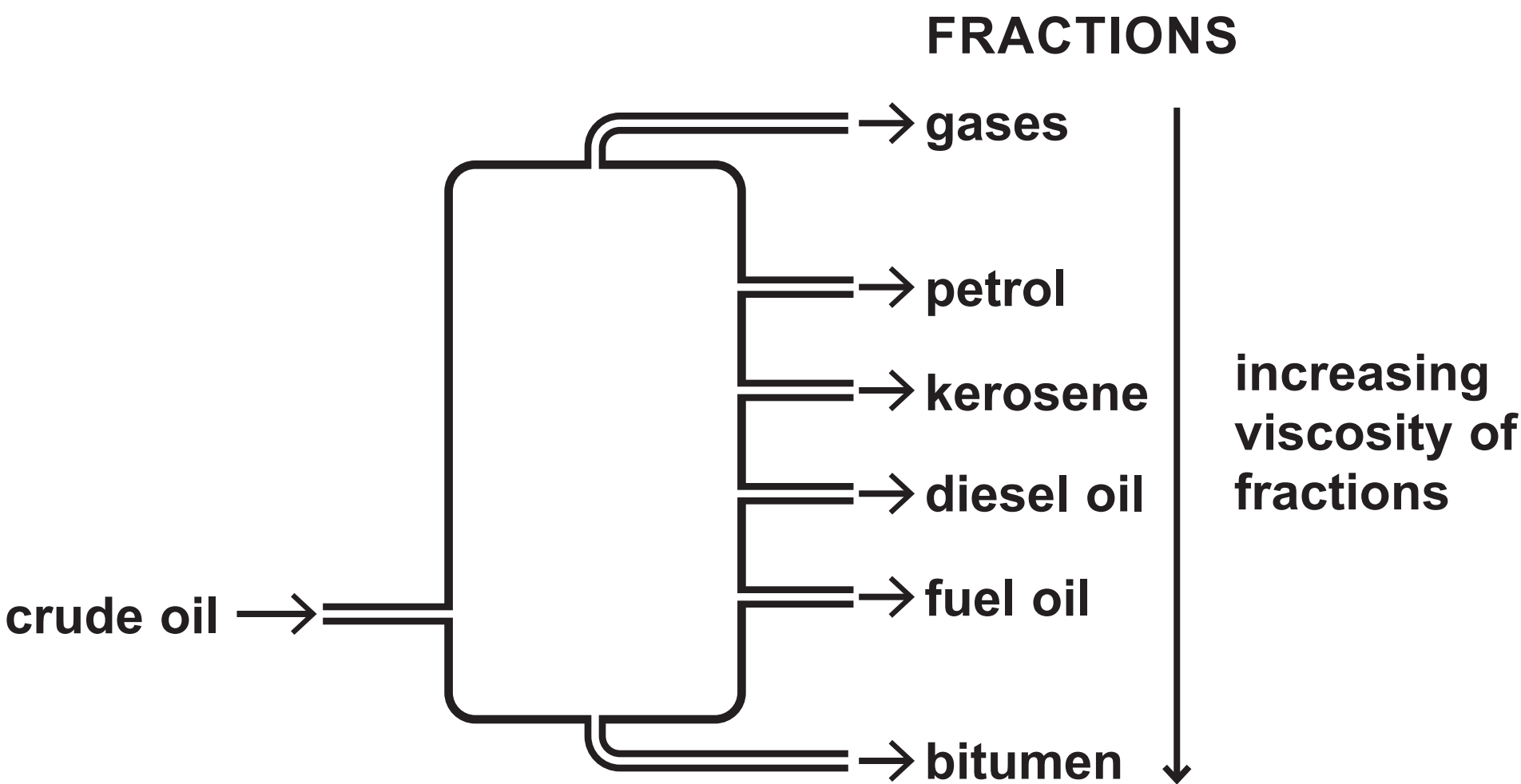
Question 8(b)(iii)

FIGURE 14

bond	bond energy in kJ mol^{-1}
$\text{N}\equiv\text{N}$	944
$\text{H}-\text{H}$	436
$\text{H}-\text{N}$	388

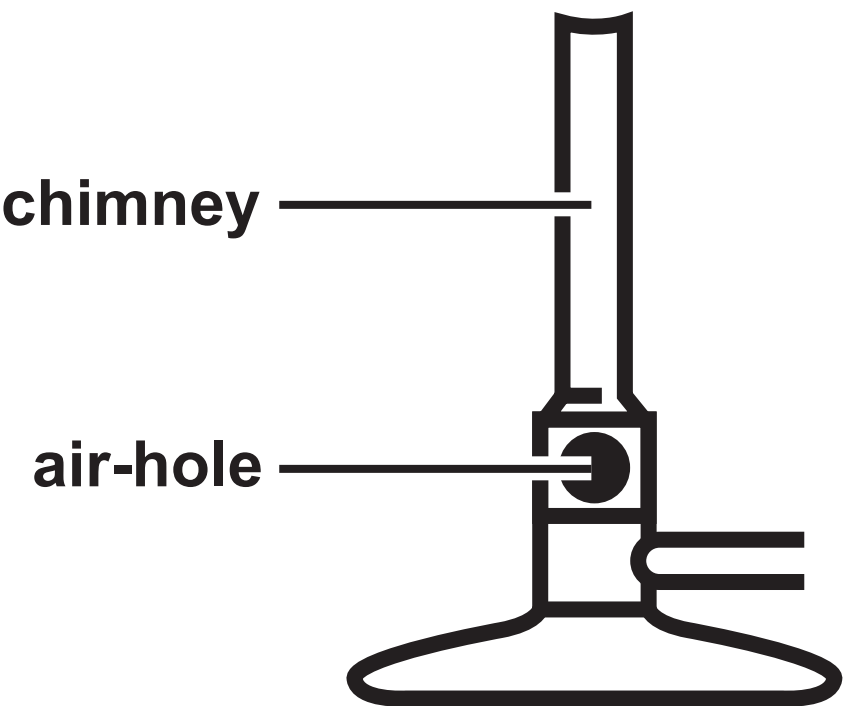
Question 9(a)

FIGURE 15



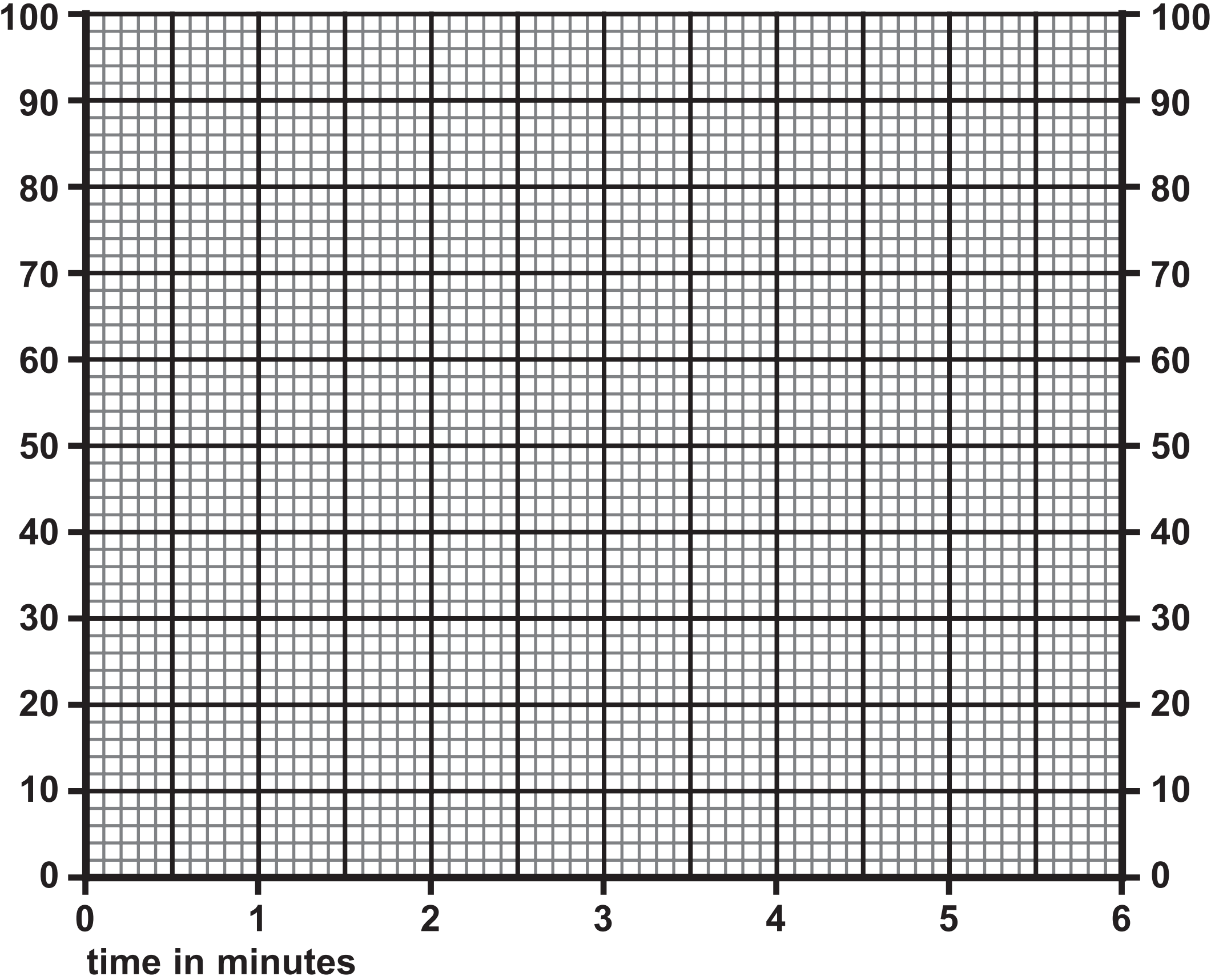
Question 9(c)

FIGURE 16



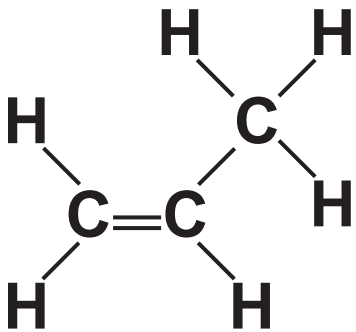
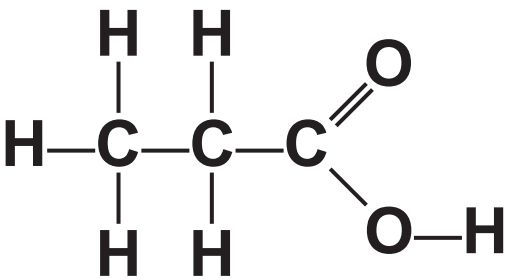
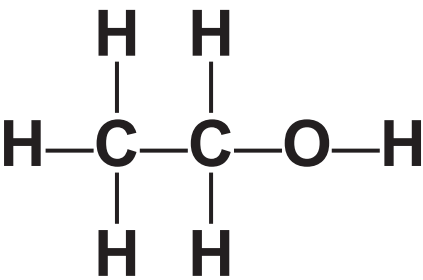
Question 2(a) and 2(c)

volume of
gas in cm³



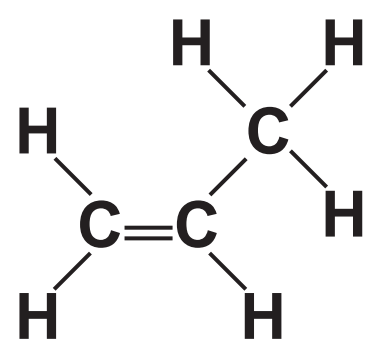
Question 7(a)(i)

FIGURE 12

propene	propanoic acid	ethanol
		

Question 7(a)(ii)

PROPENE



BROMINE



PRODUCT
