

Paper Reference(s) 1SC0/2CH
Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Combined Science
PAPER 5
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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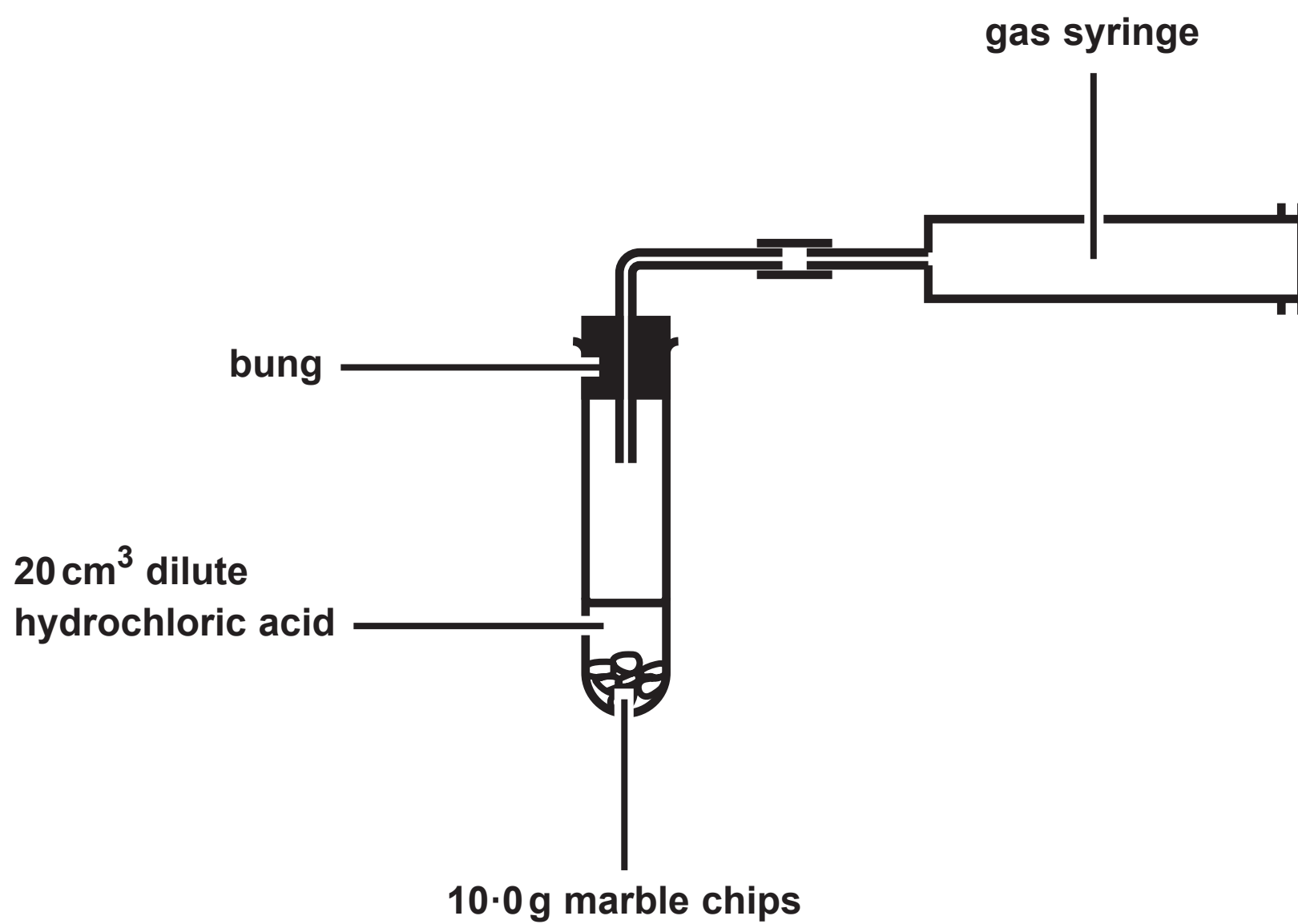
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Question 1

FIGURE 1



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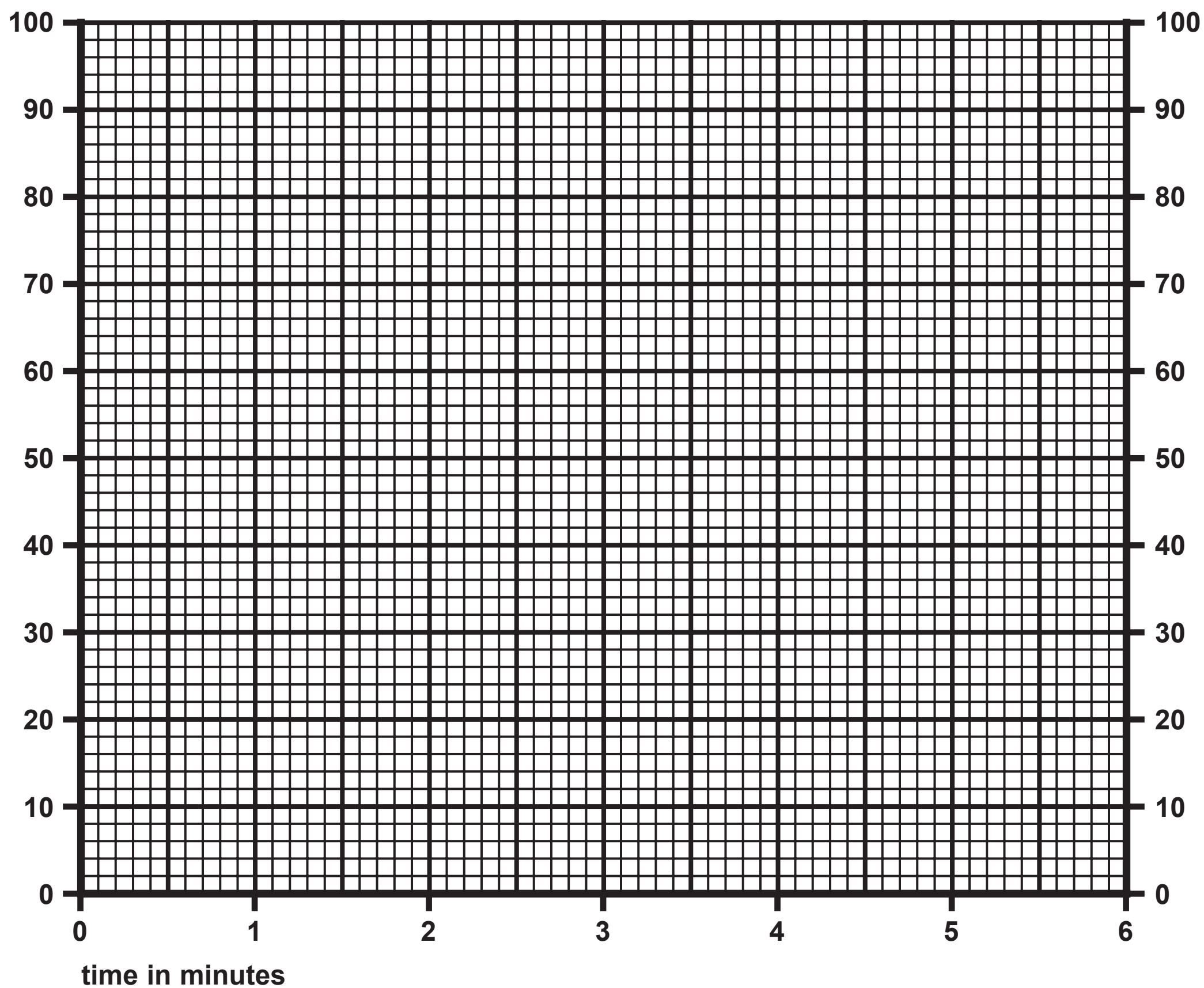
Question 1 continued.

FIGURE 2

time in minutes	0	1	2	3	4	5	6
volume of gas in cm ³	0	52	78	91	97	100	100

Question 1(a)

volume of gas
in cm^3



Question 1(b)

FIGURE 3

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

Question 2

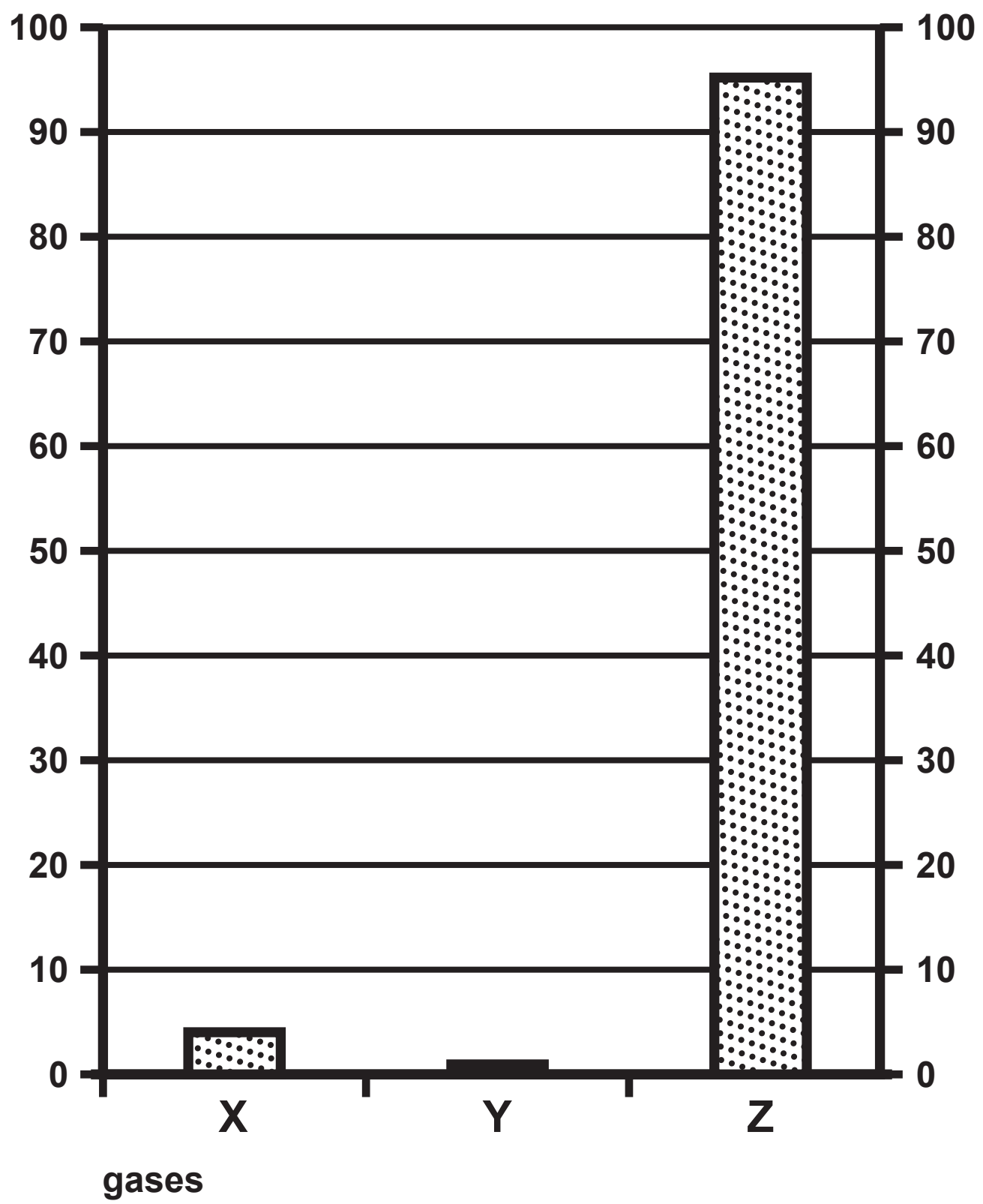
FIGURE 4

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

Question 3(a)

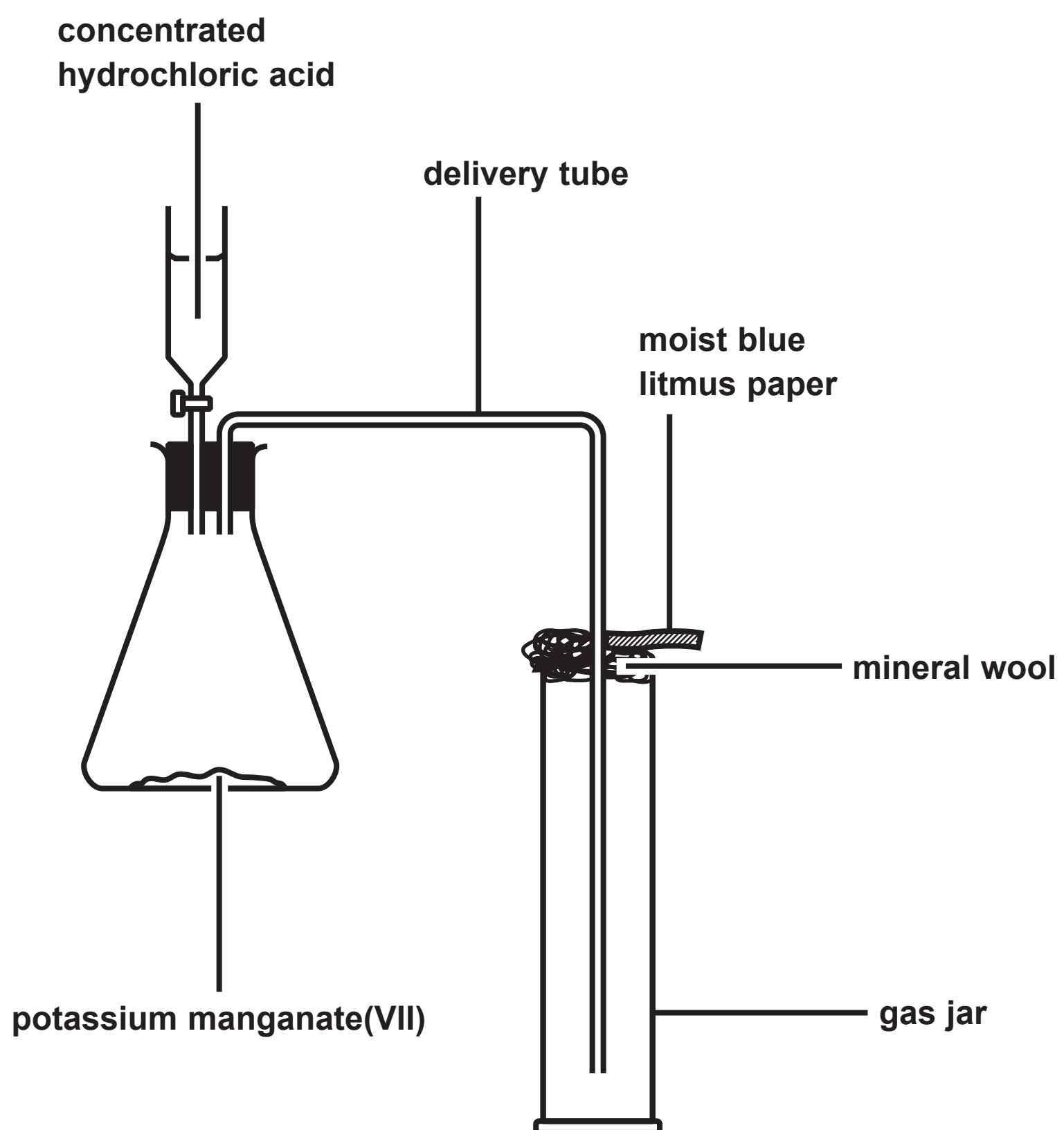
FIGURE 5

percentage of gas in
Earth's early atmosphere











Question 4

FIGURE 6



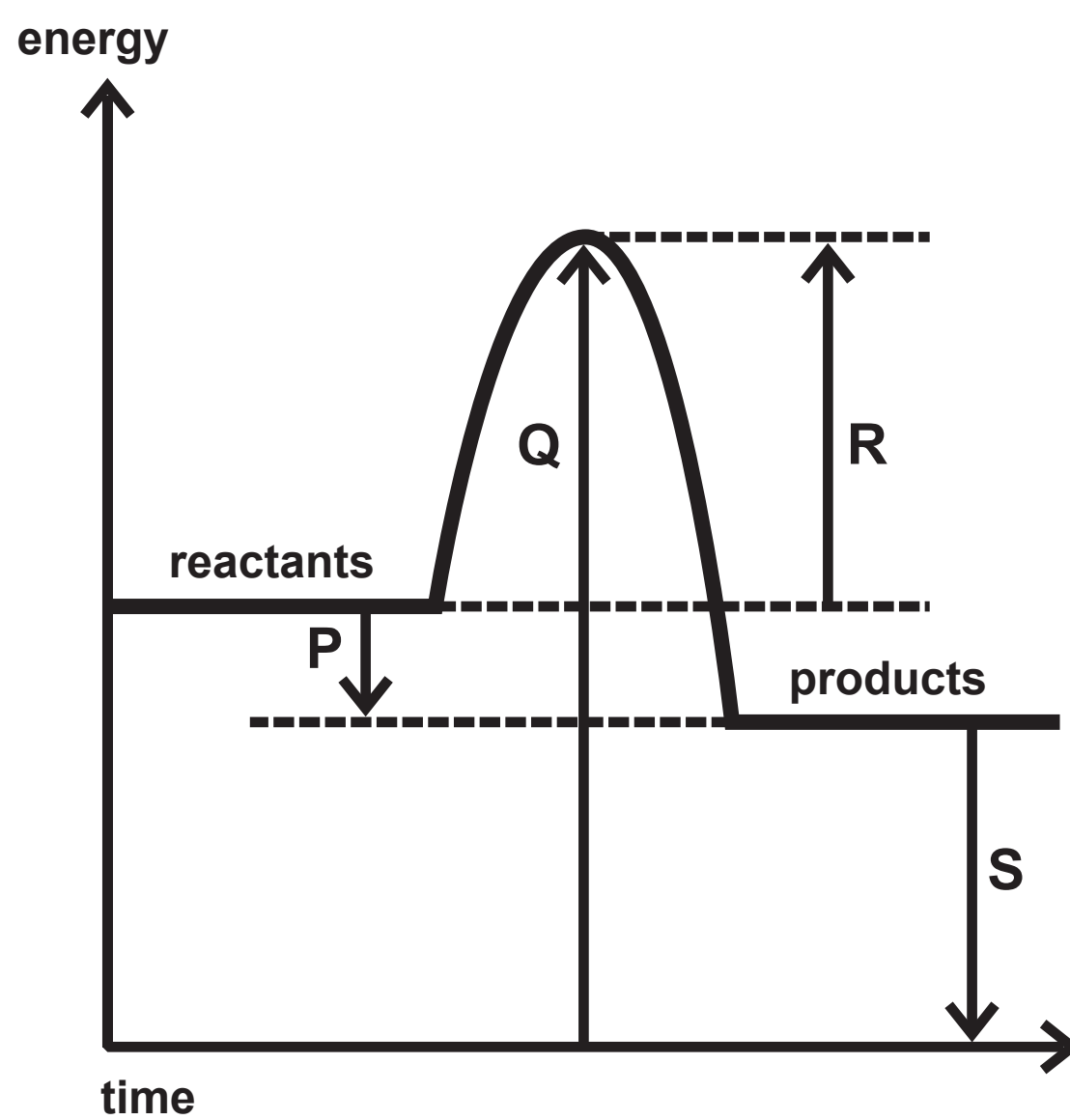
Question 4(a)

FIGURE 7

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

Question 5(b)

FIGURE 8



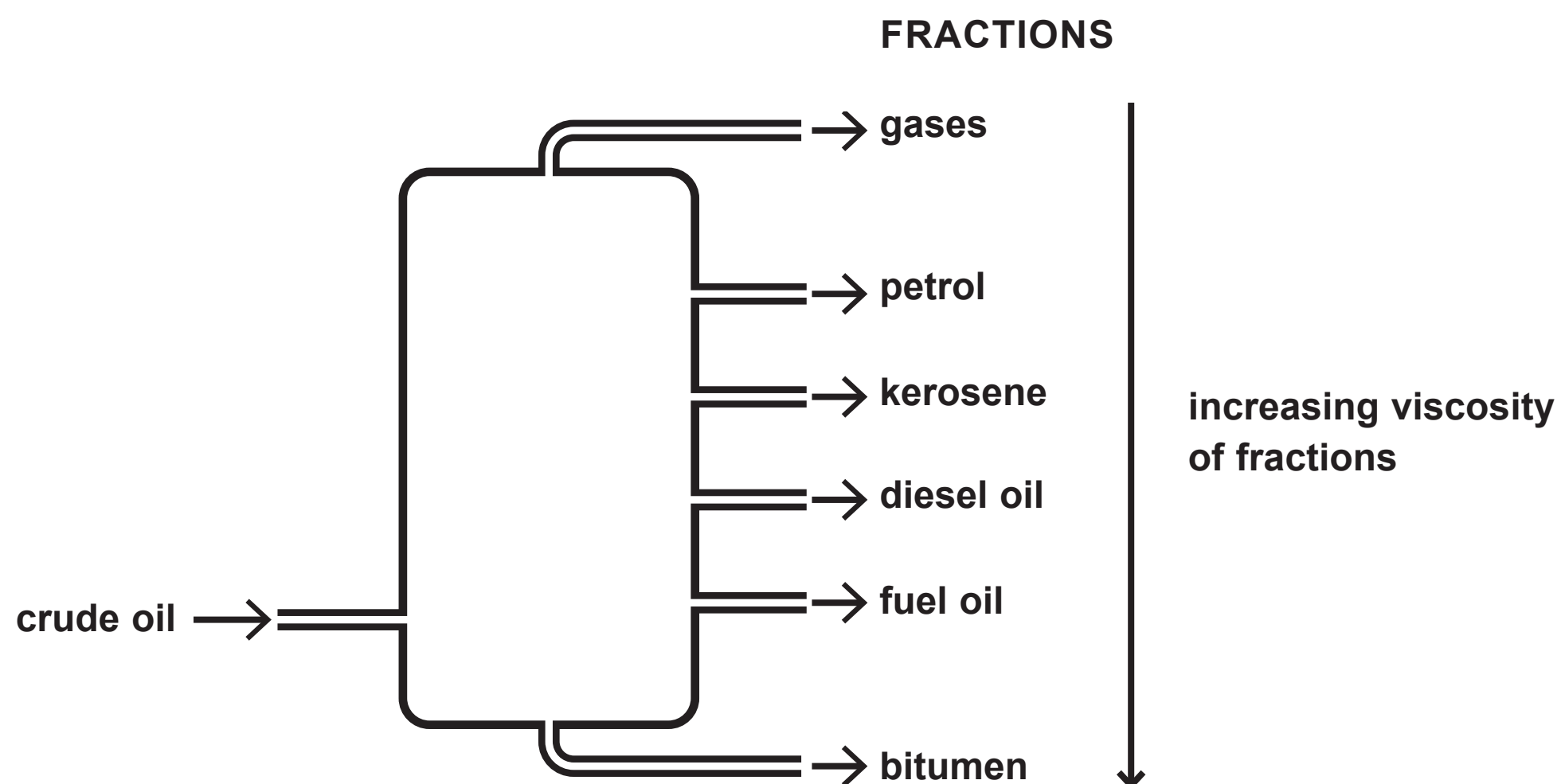
Question 5(b)(iii)

FIGURE 9

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

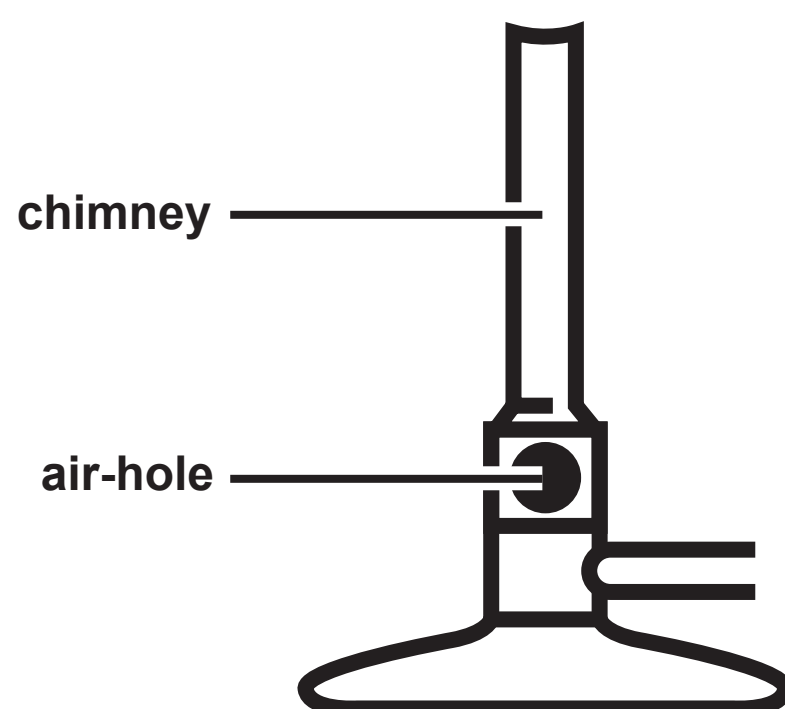
Question 6(a)

FIGURE 10



Question 6(c)

FIGURE 11



Question 1(a)

volume of gas
in cm³

