

Paper Reference(s) 1PH0/2F  
Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Physics  
PAPER 2  
Foundation Tier

Friday 14 June 2024 – Afternoon

Time: 1 hour 45 minutes

Diagram Booklet

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

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

Surname					
Other names					
Centre Number					
Candidate Number					

## **INSTRUCTIONS**

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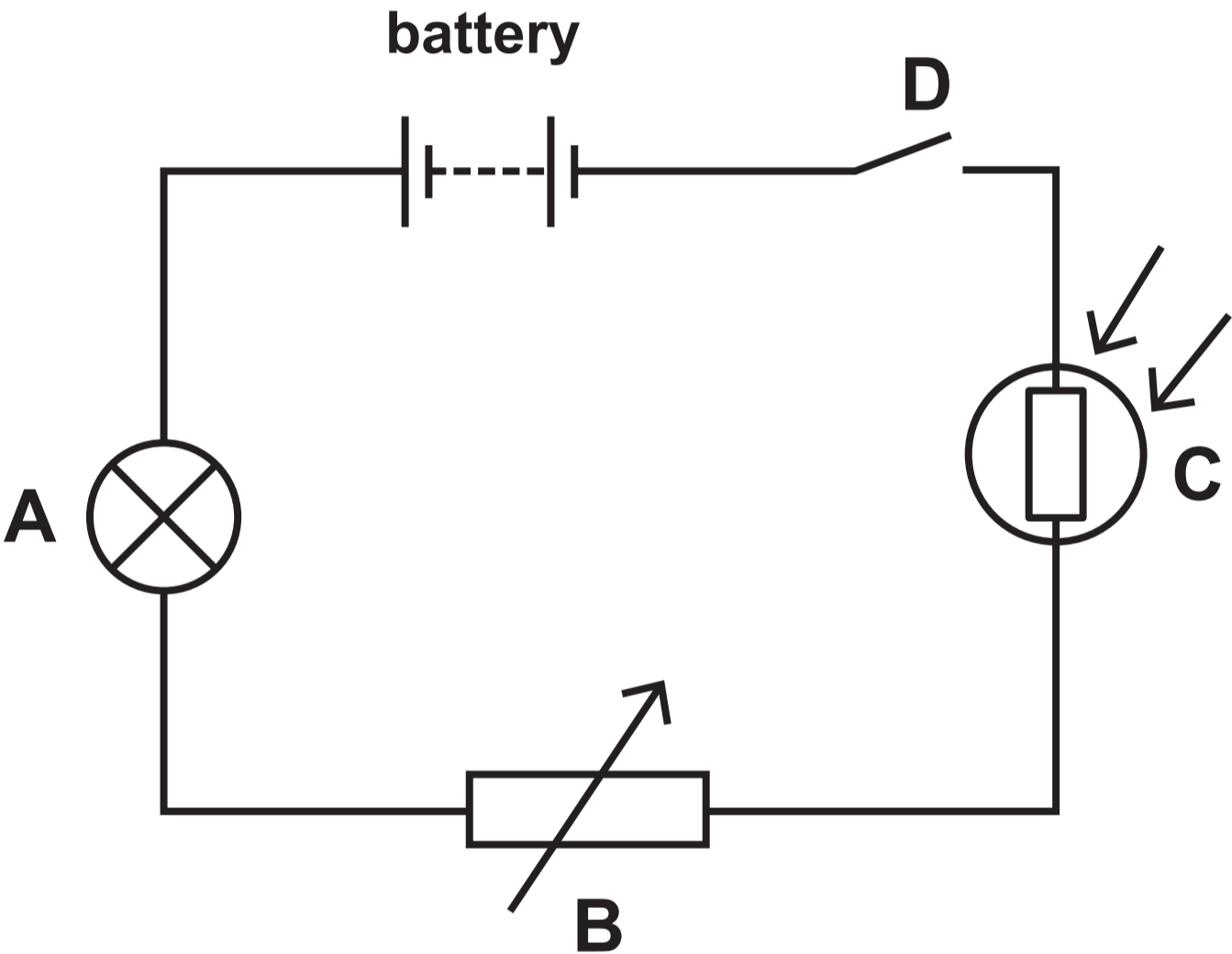
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Question 1(a)

FIGURE 1



## Question 1(a)

**ammeter**

**lamp**

**LDR**

**switch**

**thermistor**

**variable resistor**

## Question 2(a)

FIGURE 2

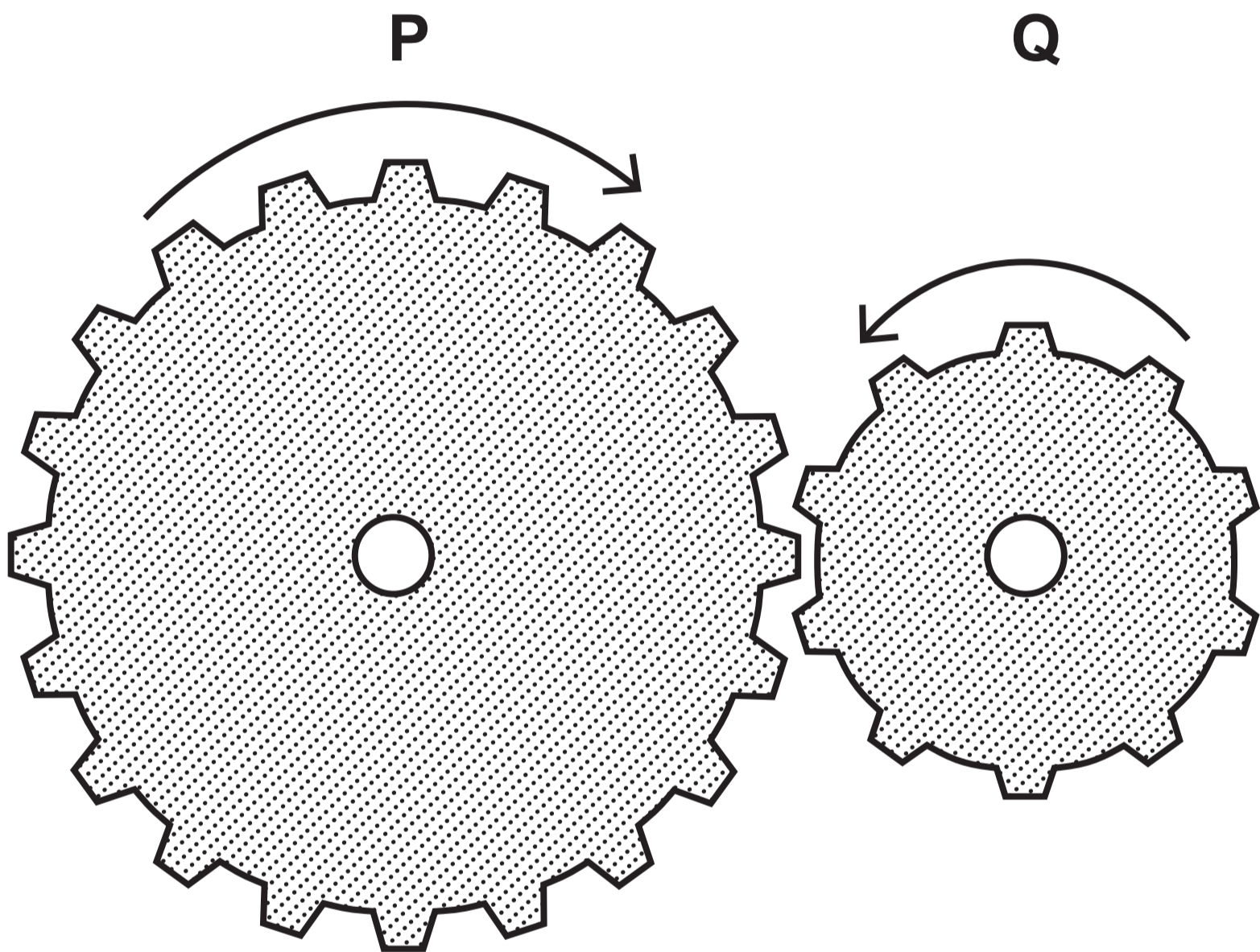
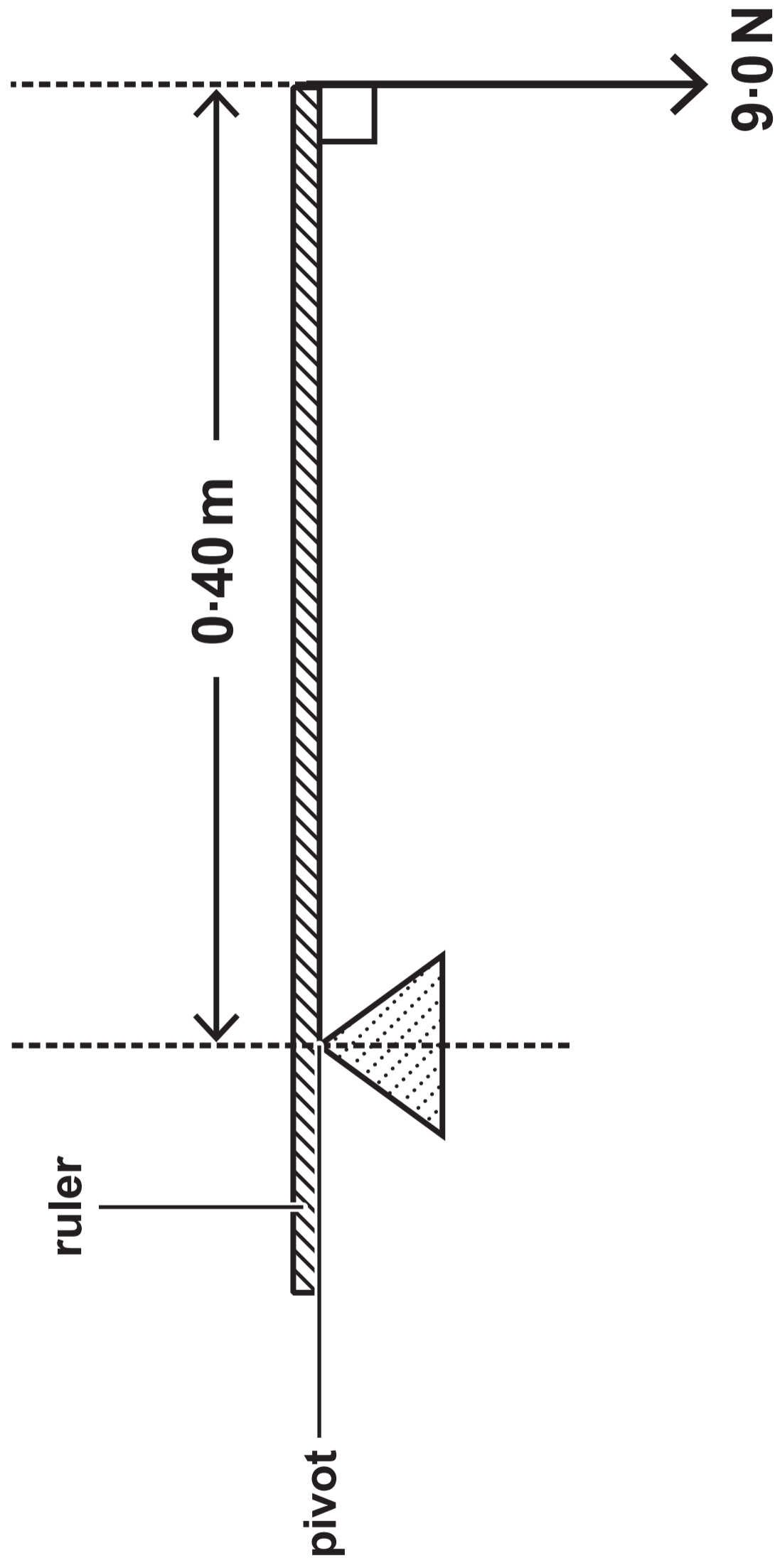
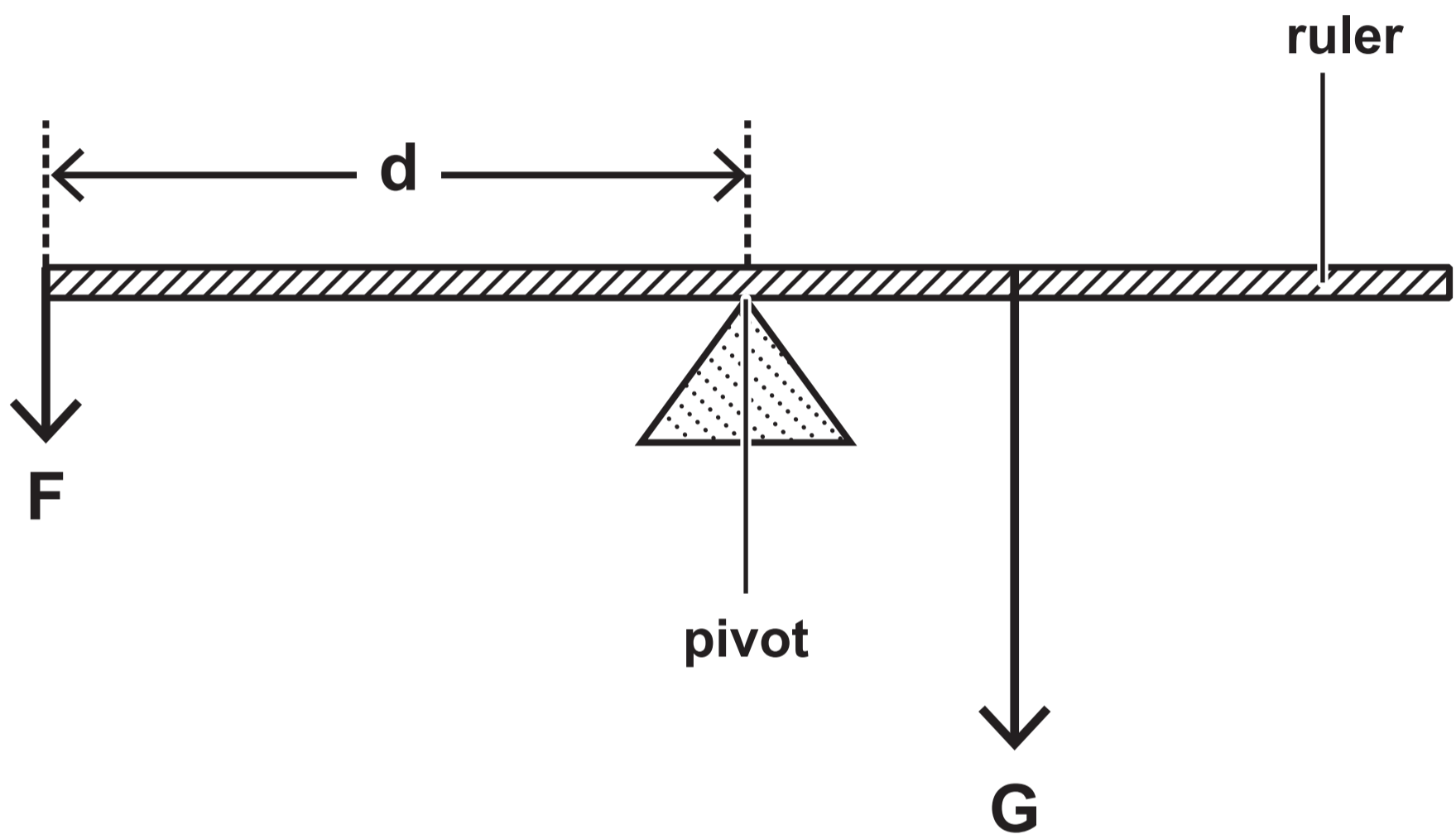


FIGURE 3



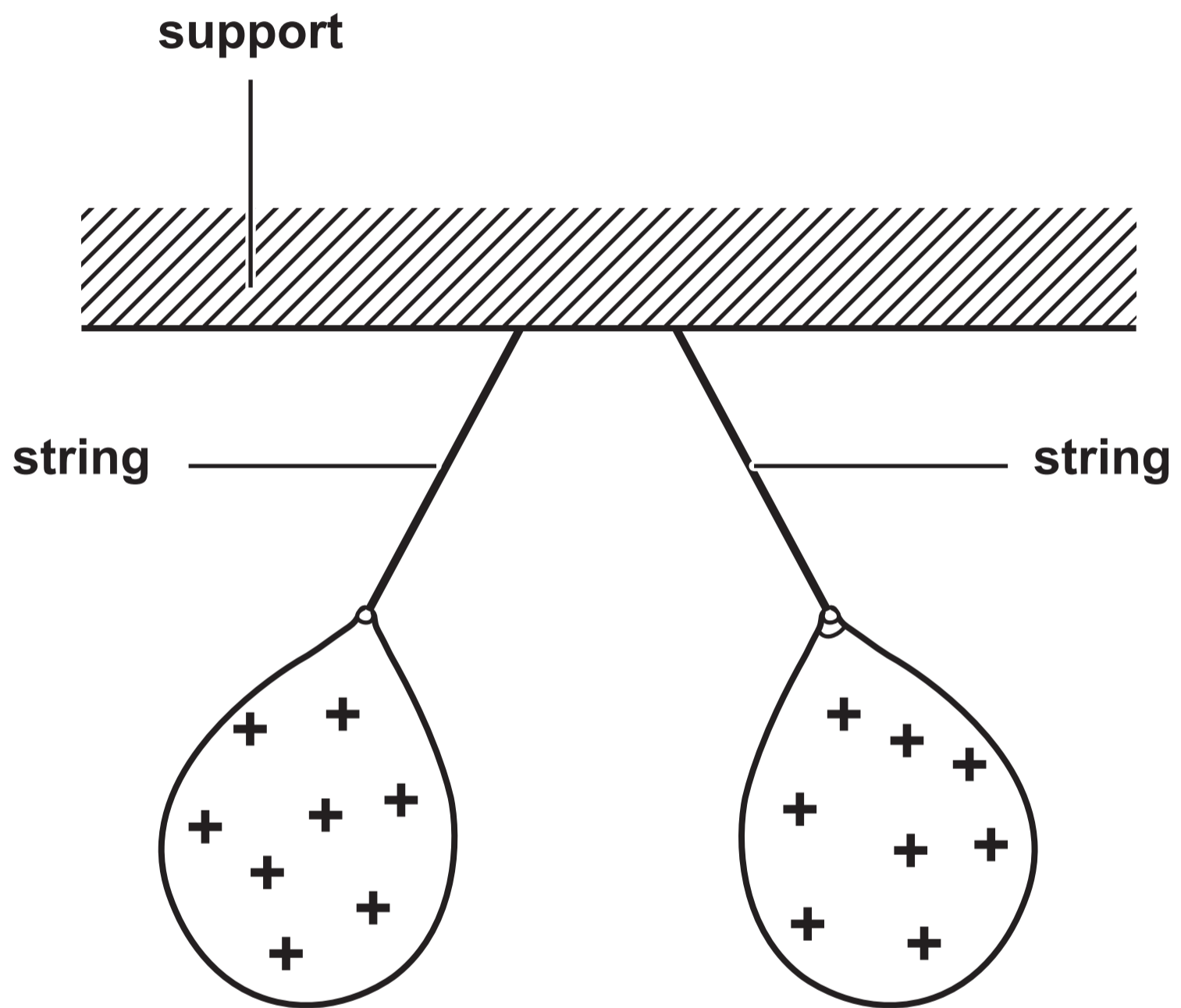
## Question 2(c)

FIGURE 4



## Question 3

FIGURE 5



### Question 3(a)

**ampere**

**attract**

**coulomb**

**electrons**

**negative**

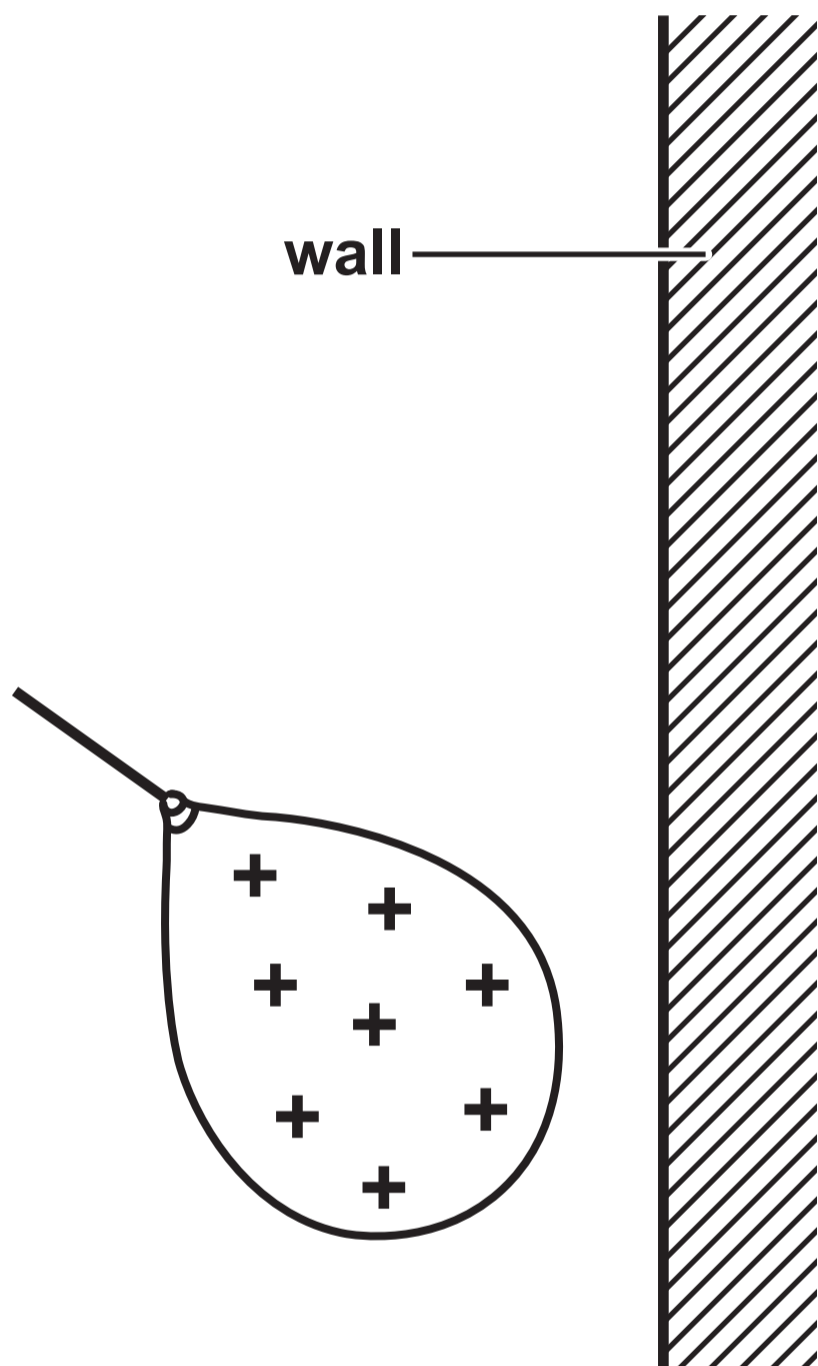
**positive**

**protons**

**repel**

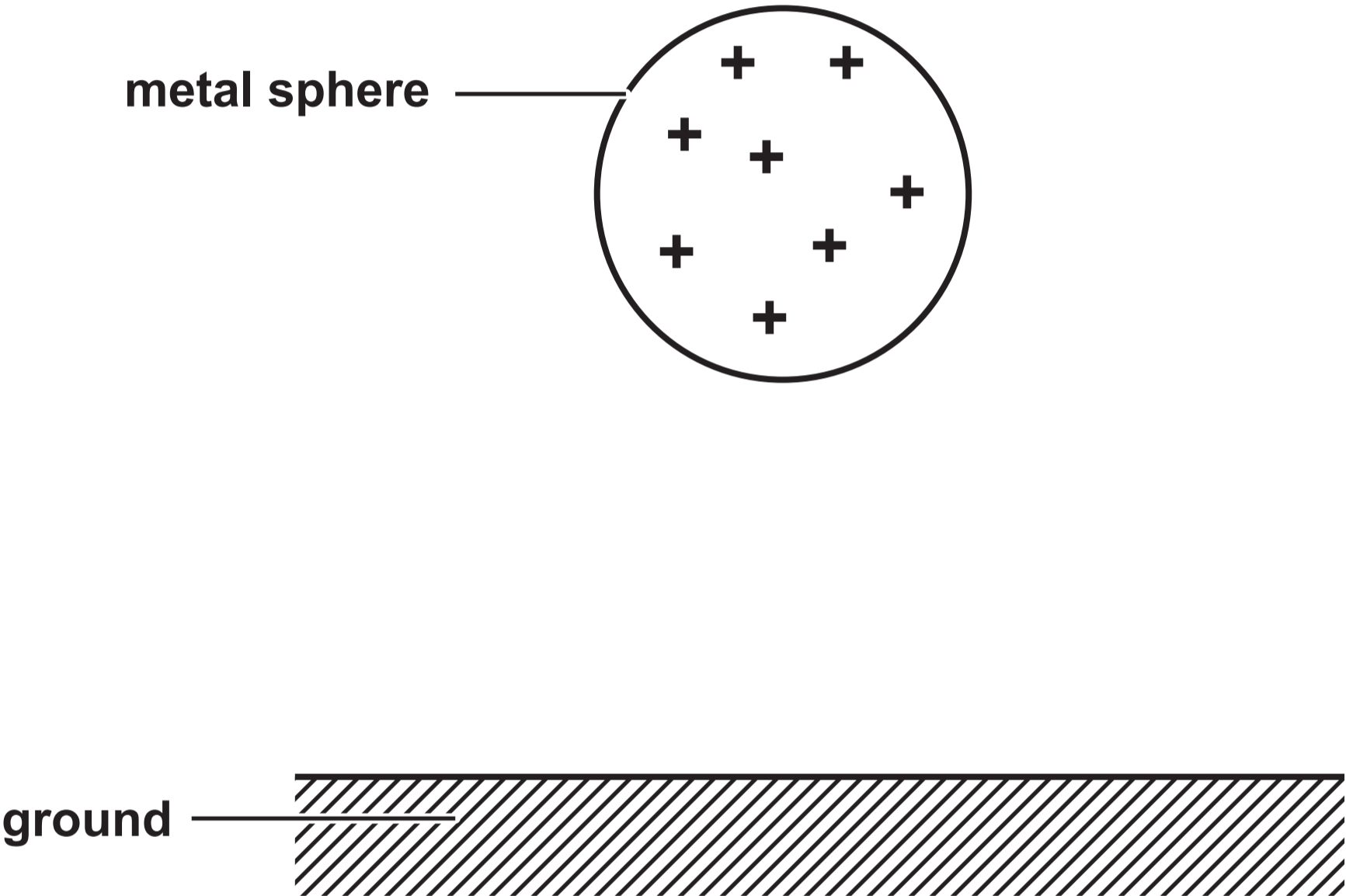
Question 3(b)

FIGURE 6



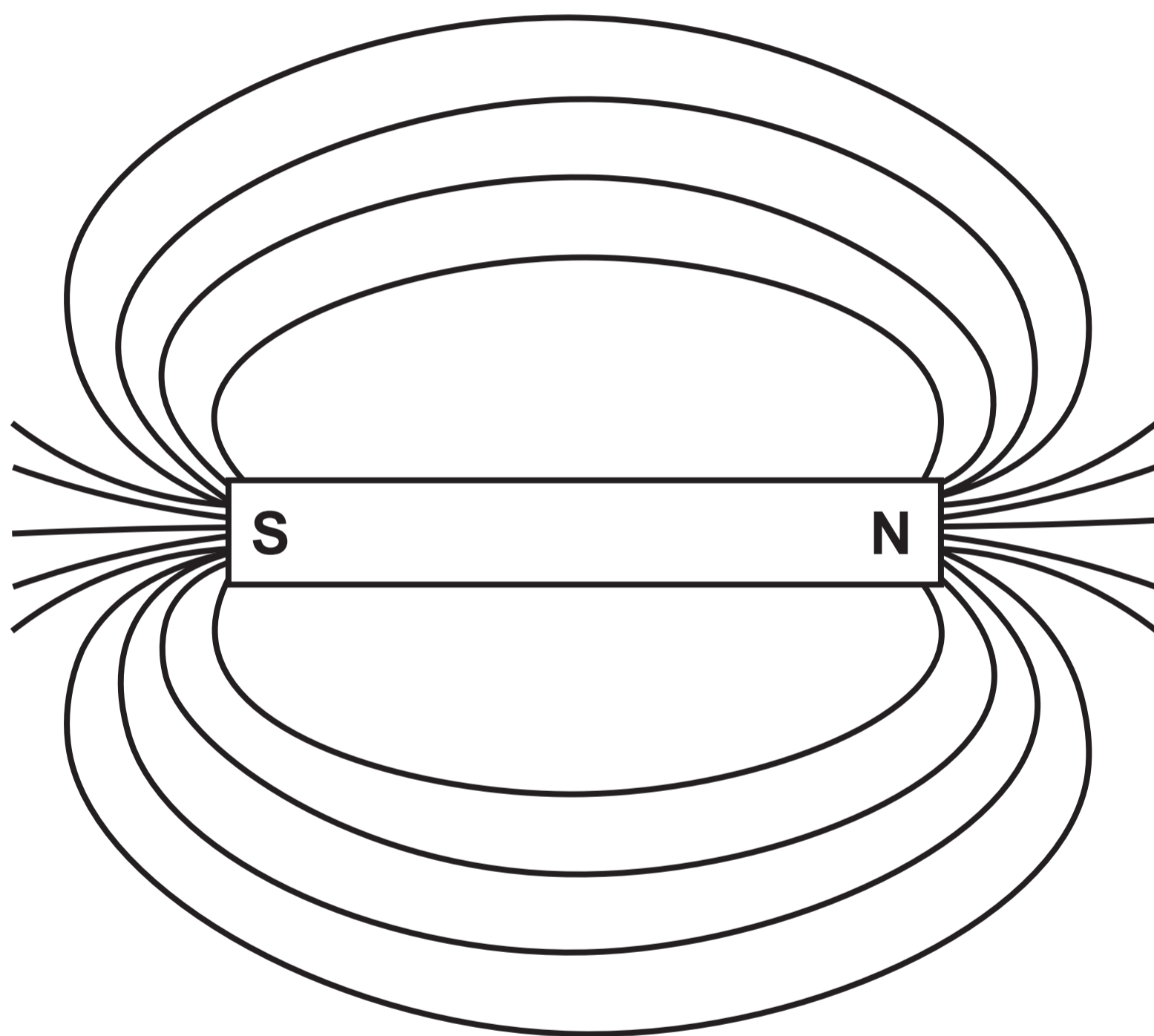
Question 3(c)

FIGURE 7



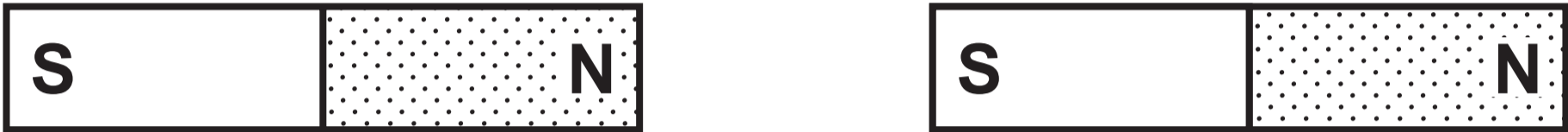
Question 4(a)

FIGURE 8



Question 4(b)

FIGURE 9

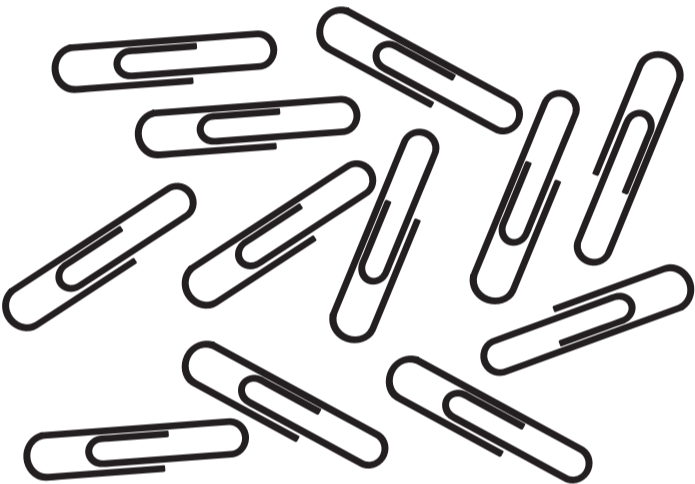
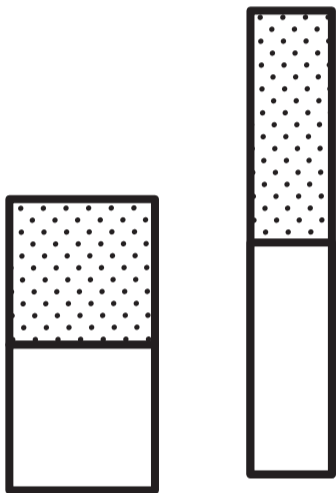


Question 4(c)

FIGURE 10

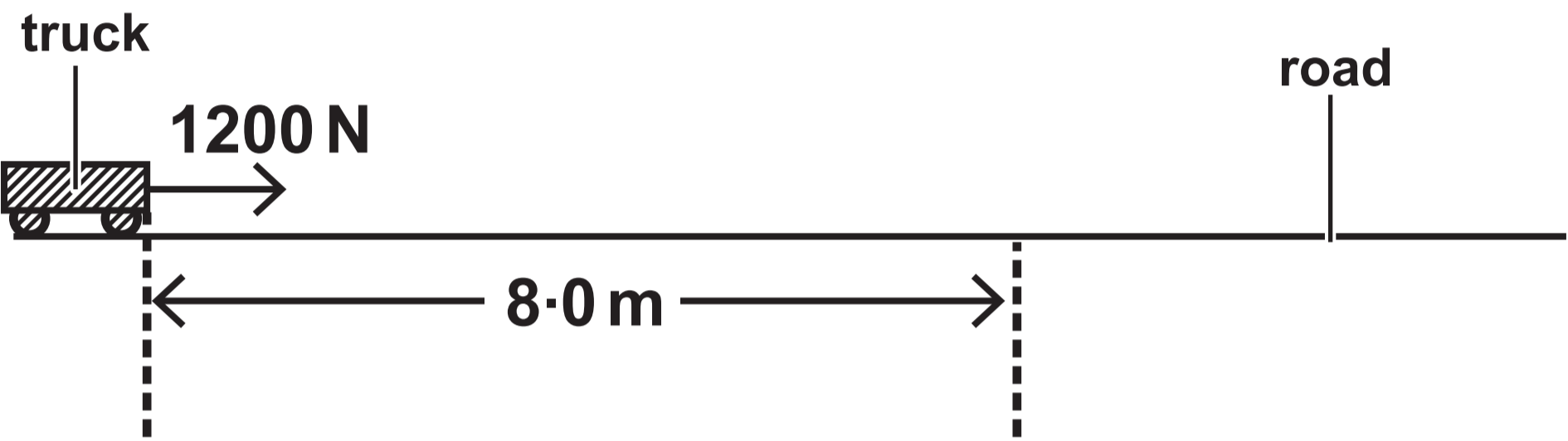
two permanent magnets

paper clips



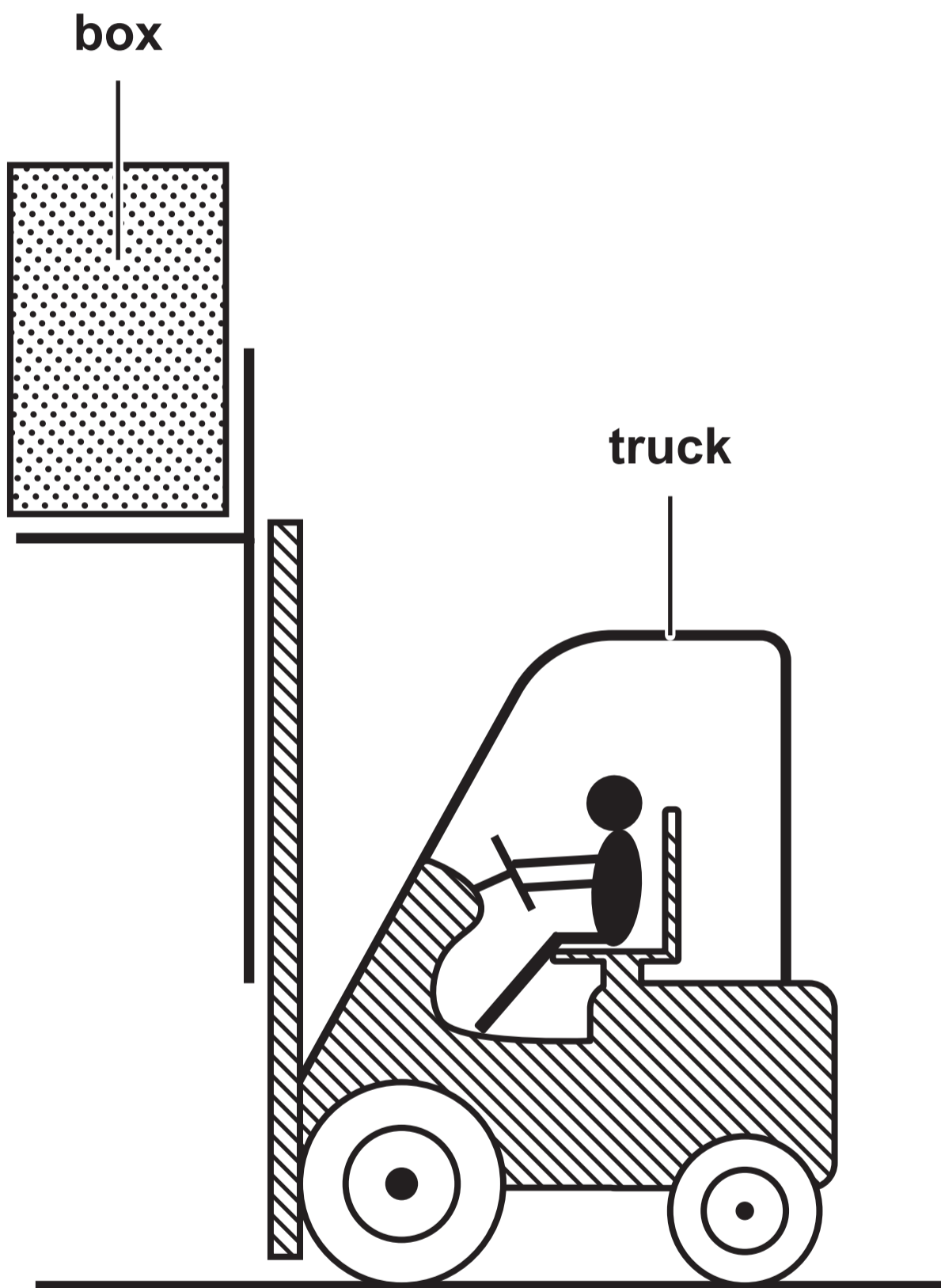
Question 5(a)

FIGURE 11



Question 5(c)

FIGURE 12

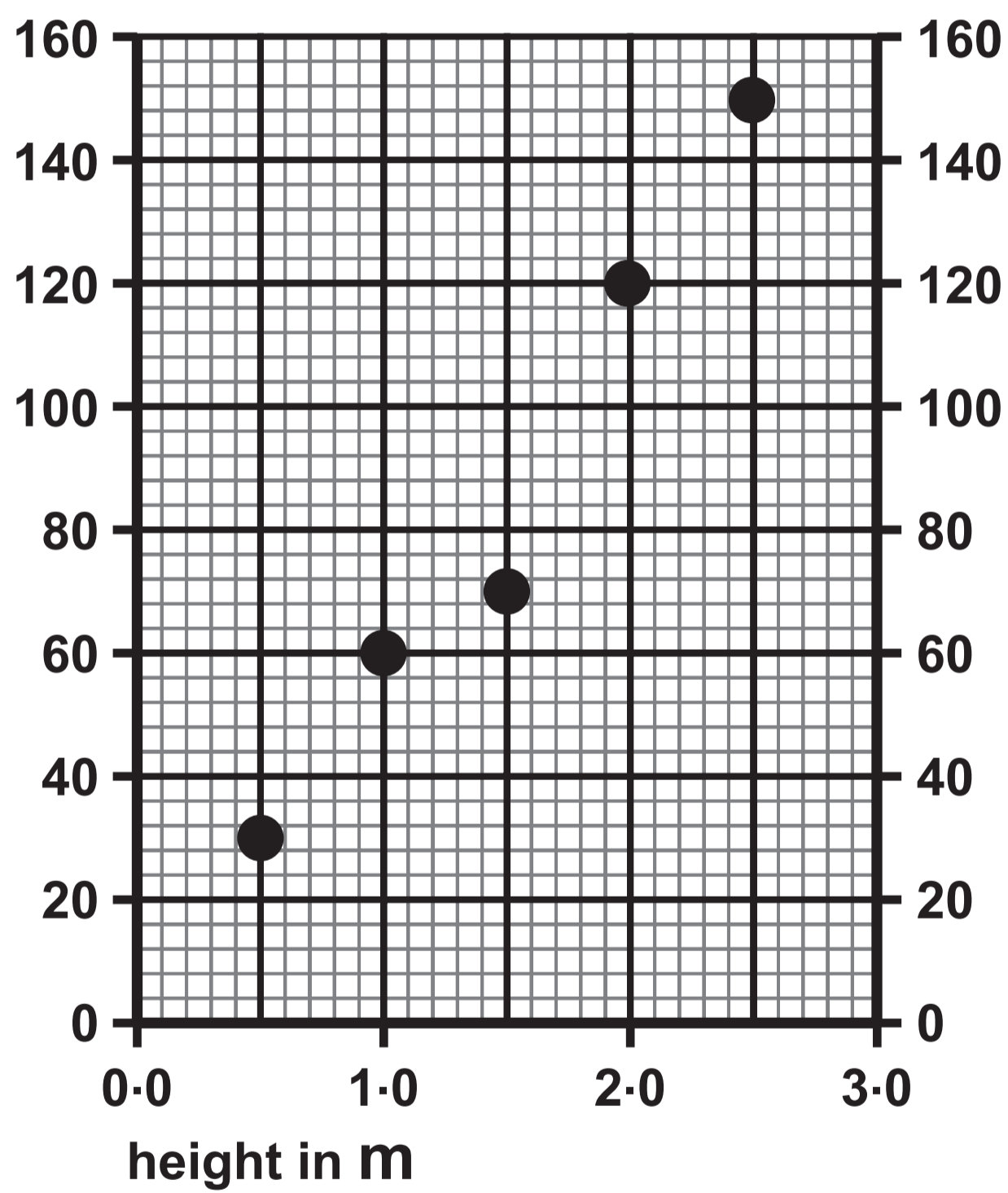


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Question 5(c) continued.

FIGURE 13

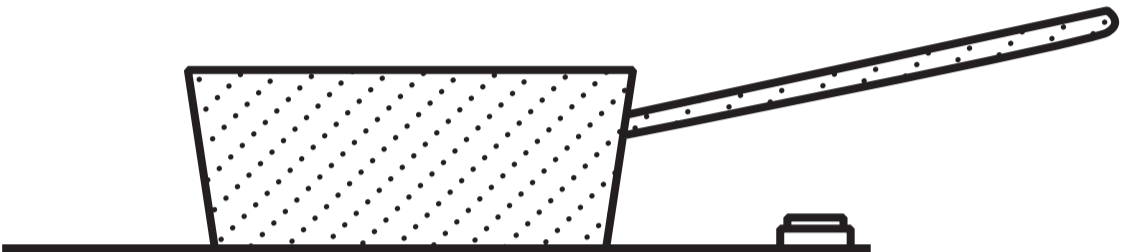
$\Delta GPE$  in J



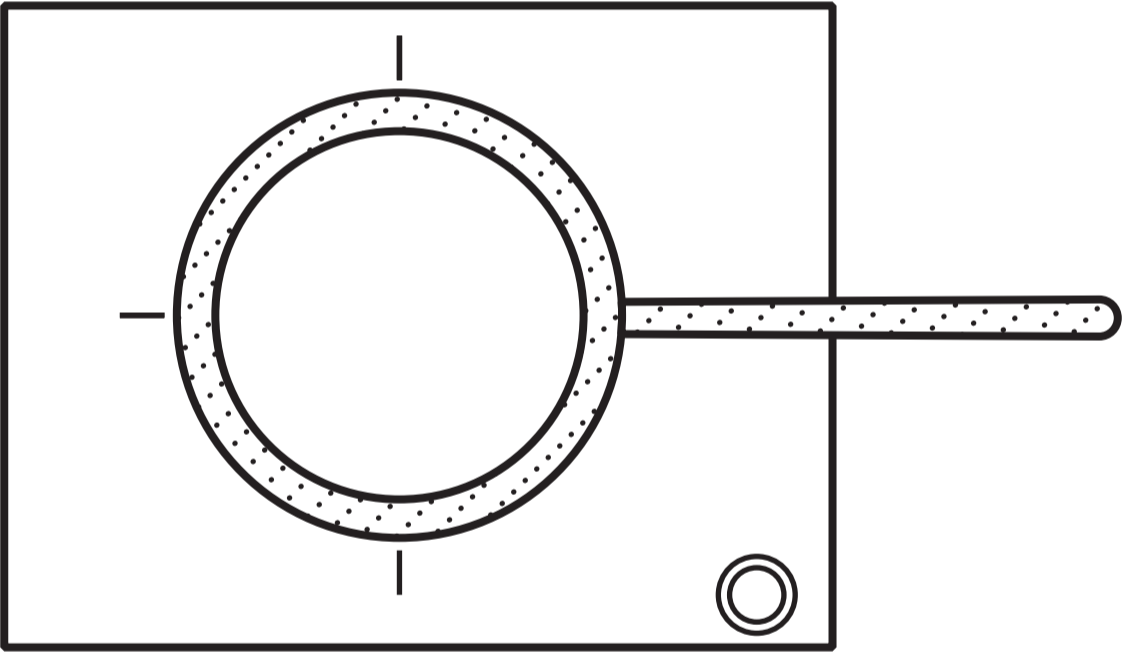
Question 6

FIGURE 14

SIDE VIEW



TOP VIEW



## Question 6(a)

FIGURE 15

<b>mass of milk</b>	<b>0·82 kg</b>
<b>starting temperature of milk</b>	<b>10 °C</b>
<b>final temperature of milk</b>	<b>40 °C</b>
<b>change in thermal energy of milk</b>	<b>96 000 J</b>

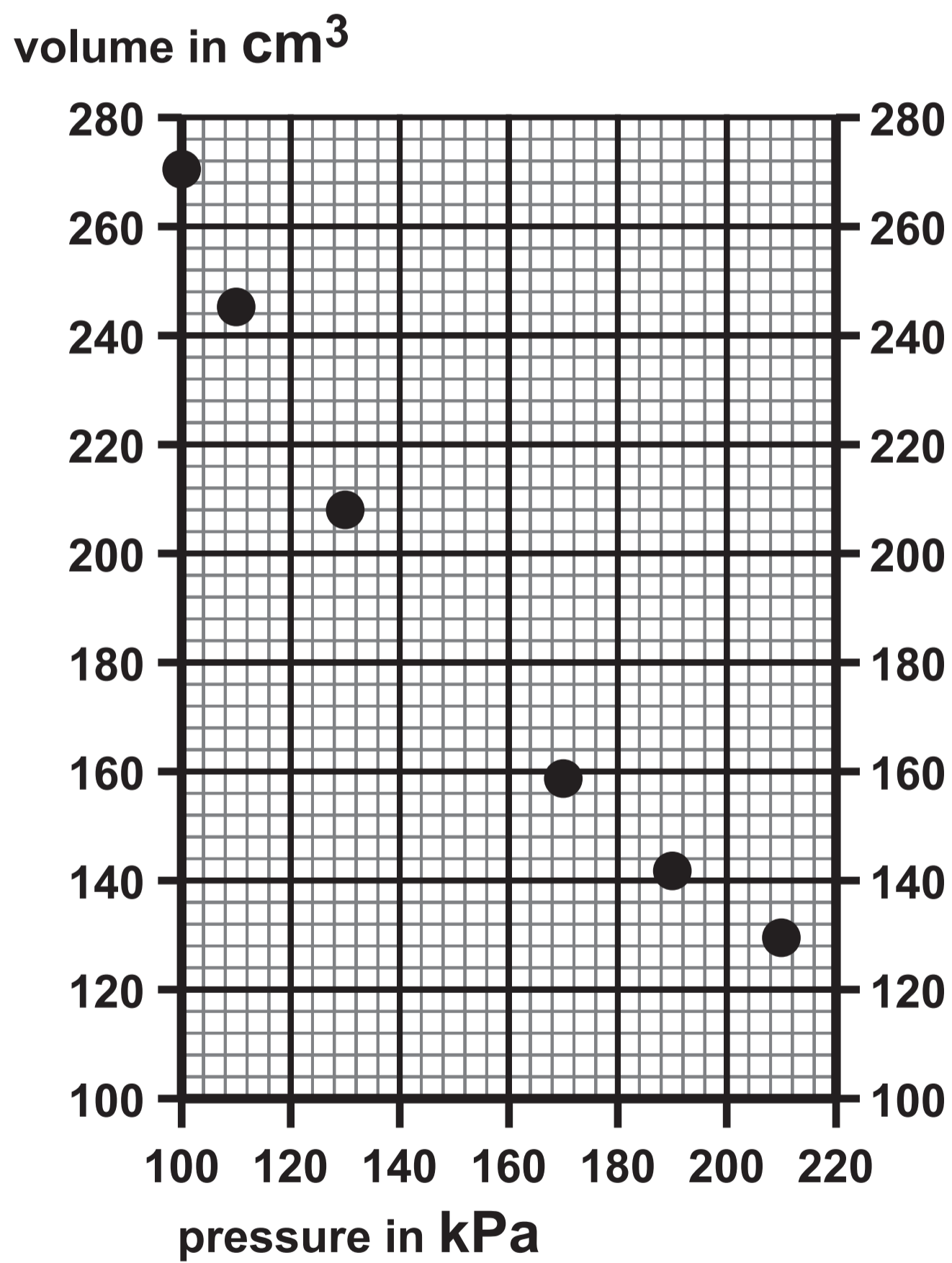
Question 7(a)

FIGURE 16

pressure in kPa	volume in cm <sup>3</sup>
100	270
110	245
130	208
150	180
170	159
190	142
210	129

## Question 7(a)

FIGURE 17

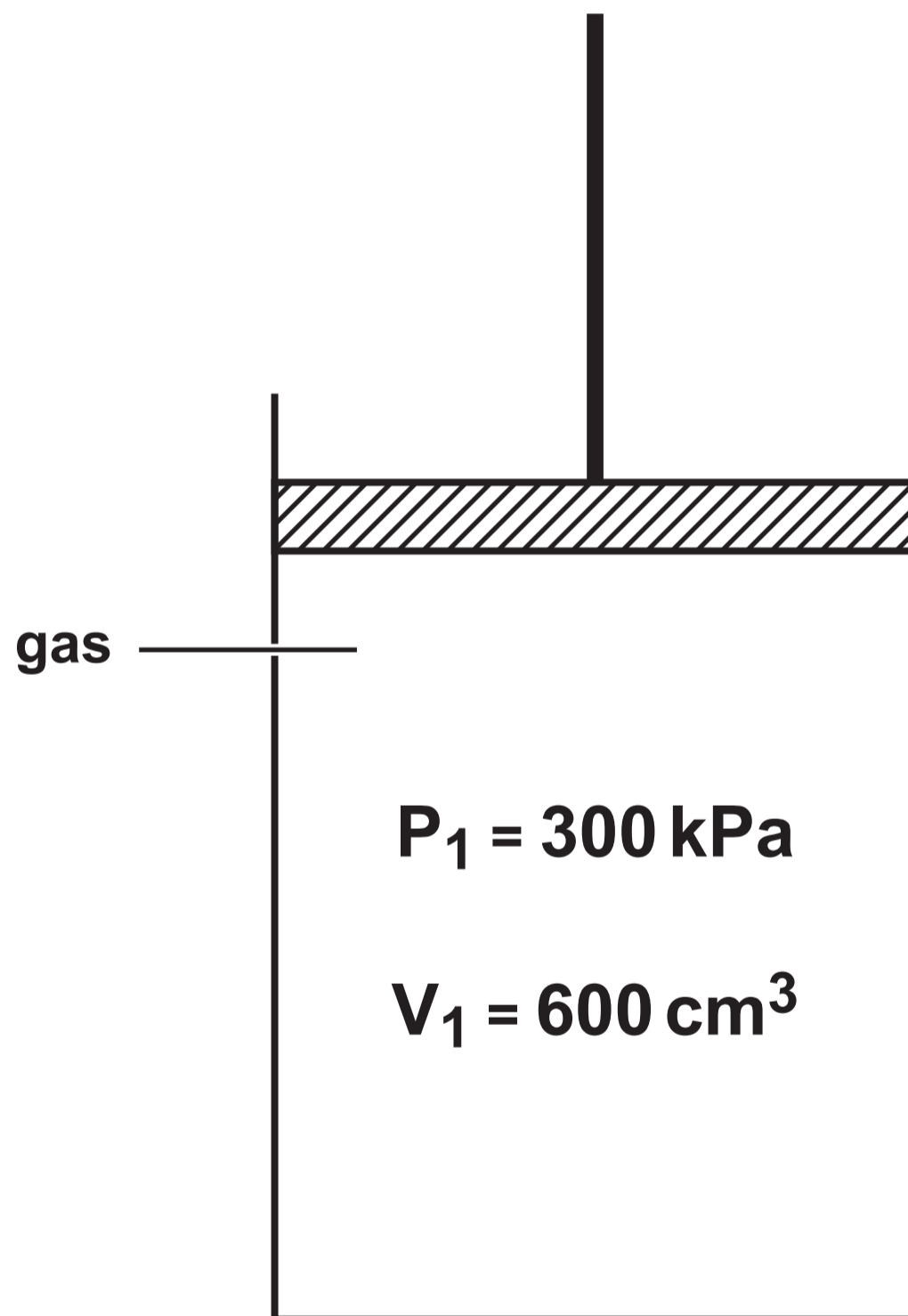


**Question 7(b)(i)****FIGURE 18**

## Question 7(b)(ii)

Not to scale

FIGURE 19A

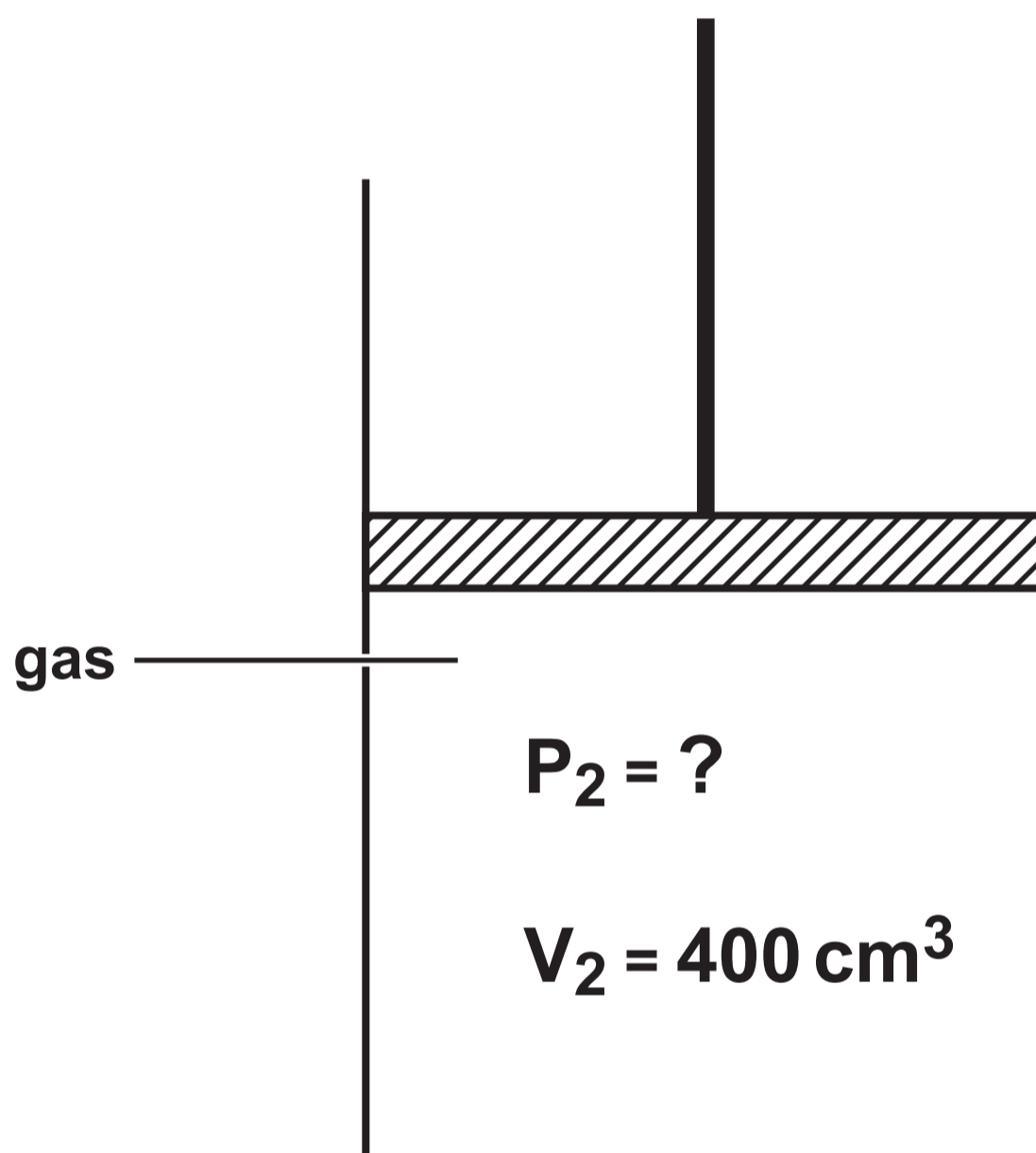


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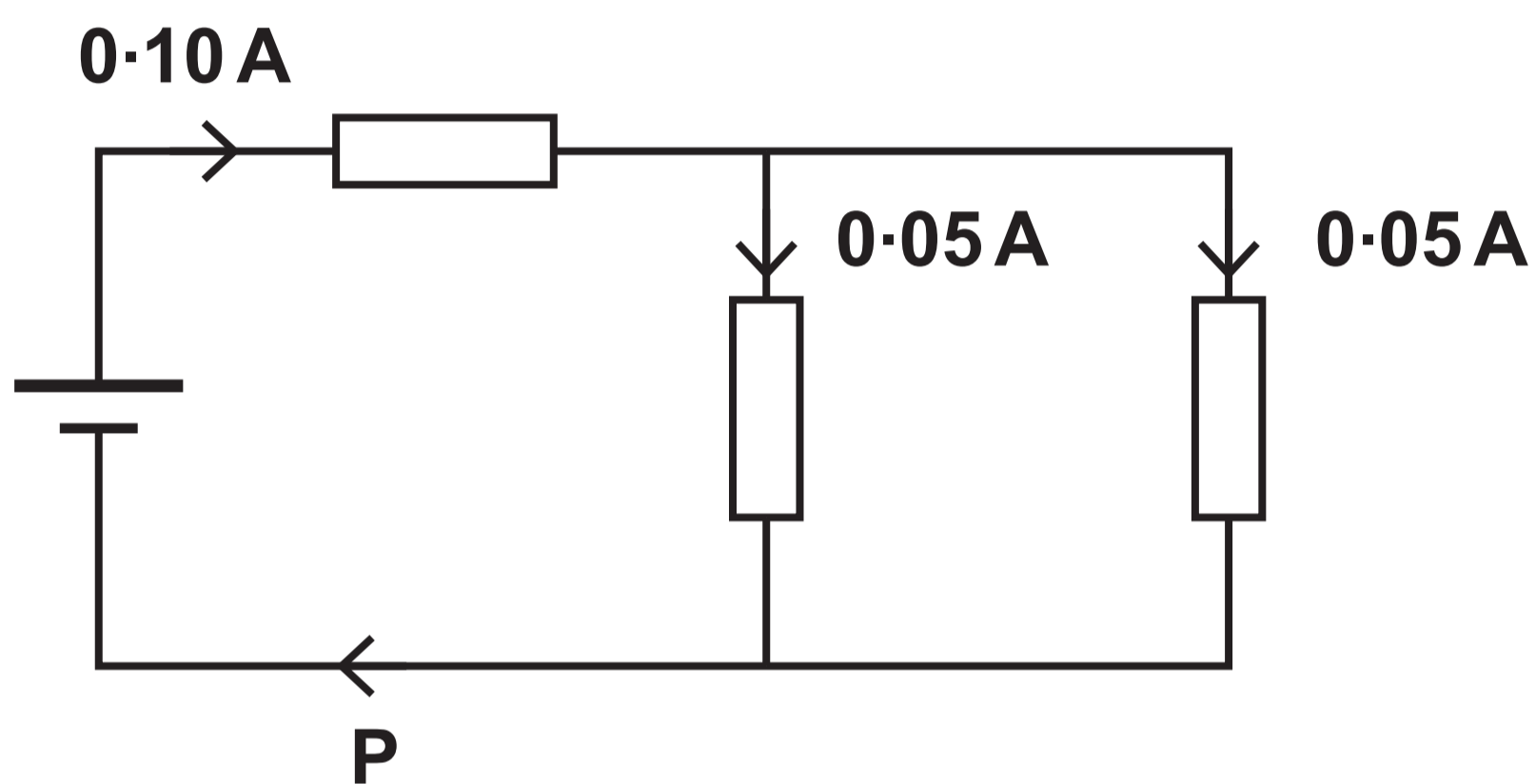
Question 7(b)(ii) continued.

FIGURE 19B



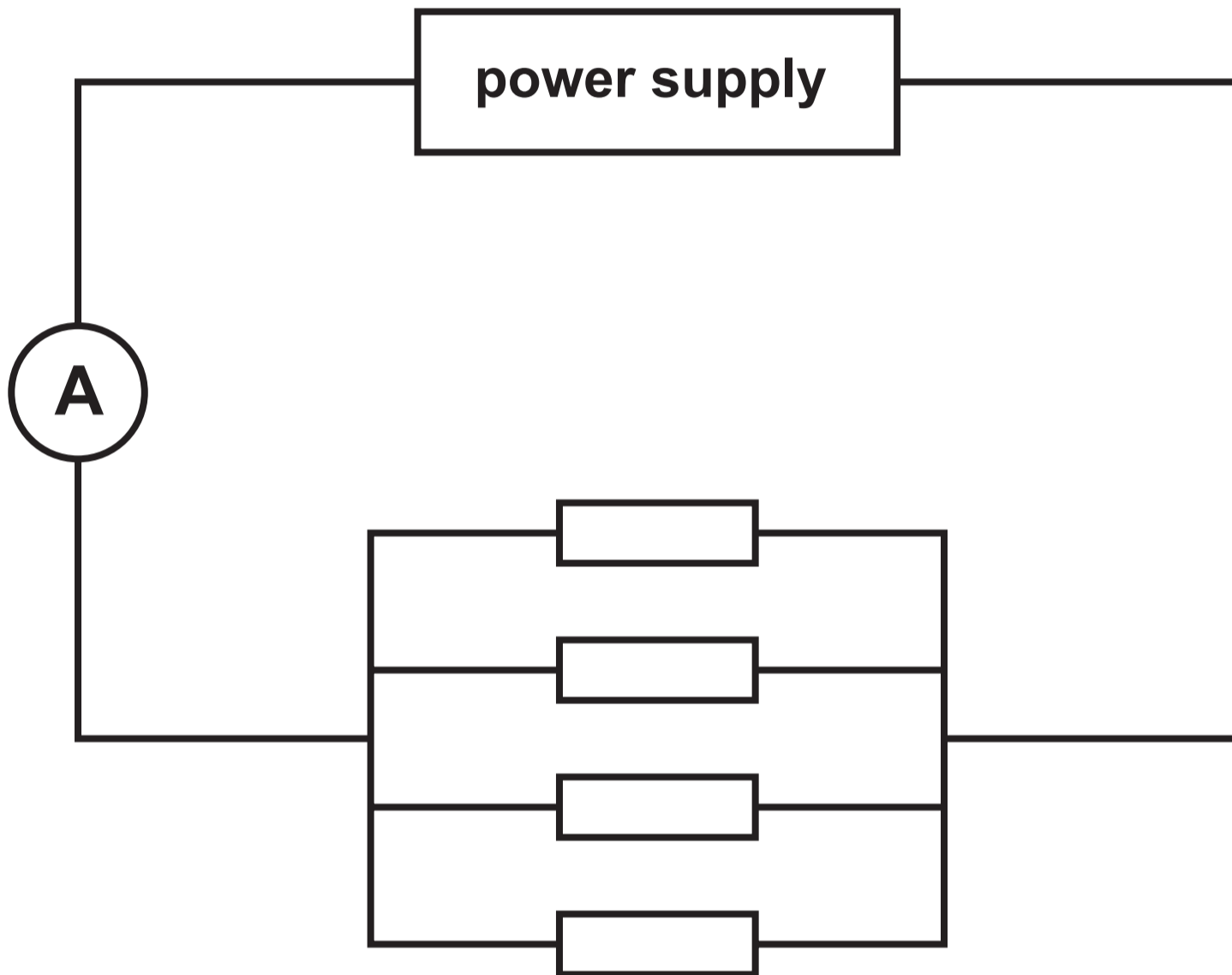
## Question 8(a)

FIGURE 20



## Question 8(b)

FIGURE 21



Question 8(b)

FIGURE 22

number of resistors	current in mA	voltage in V
4		6.00
3	27.3	6.00
2	18.2	6.00
1	9.1	6.00

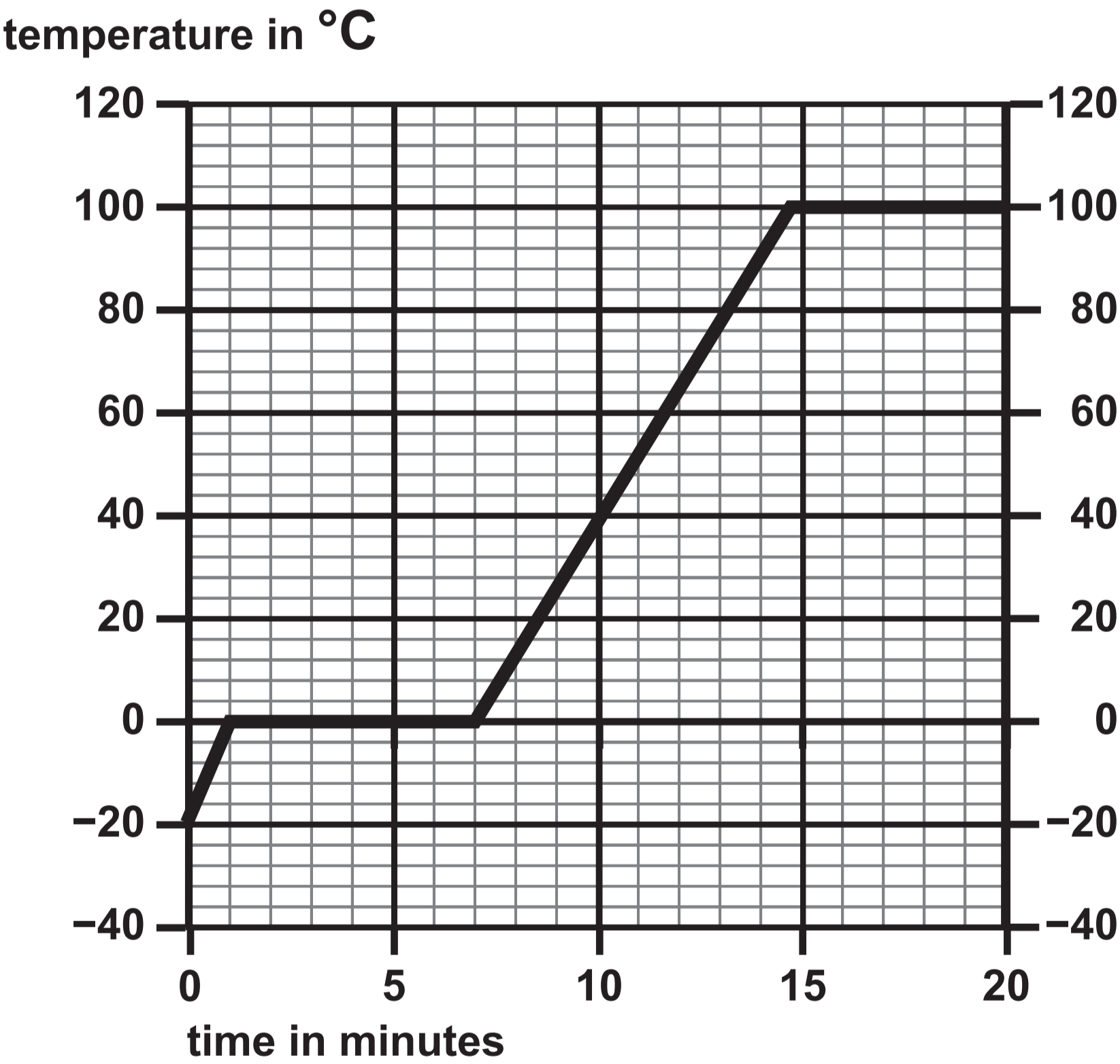
Question 9(b)

FIGURE 23

	density in g/cm <sup>3</sup>
solid aluminium	2·70
liquid aluminium	2·38

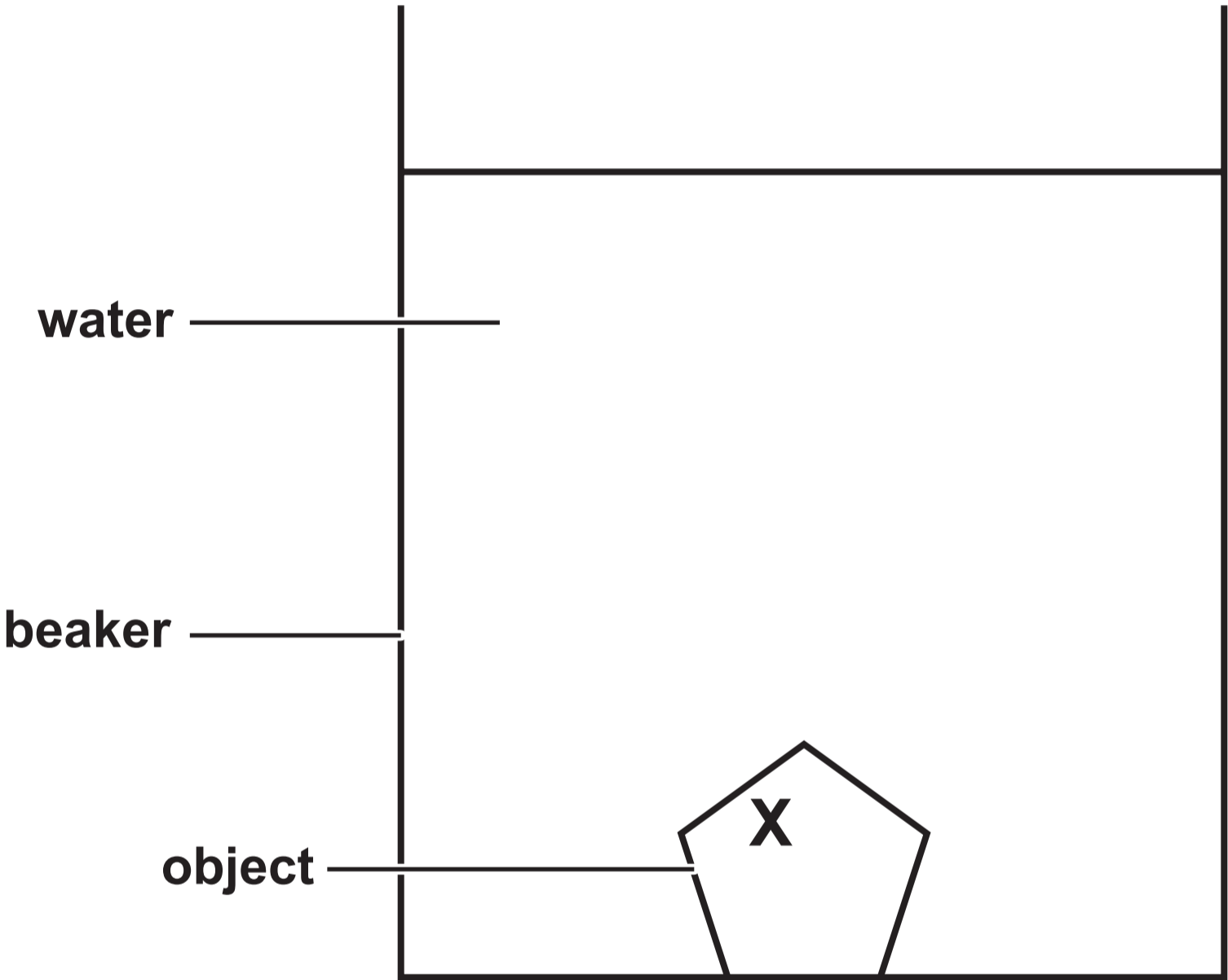
Question 9(d)

FIGURE 24



Question 10(a)

FIGURE 25



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Question 10(a) continued.

diagram A

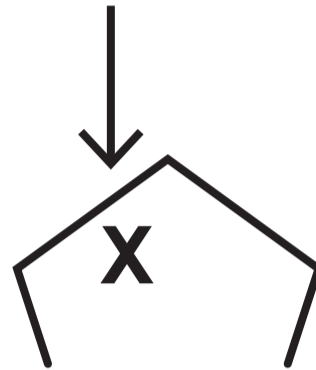


diagram B

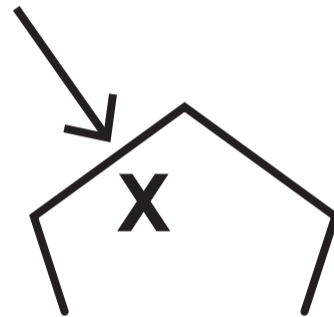
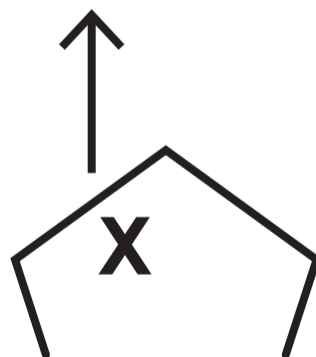


diagram C

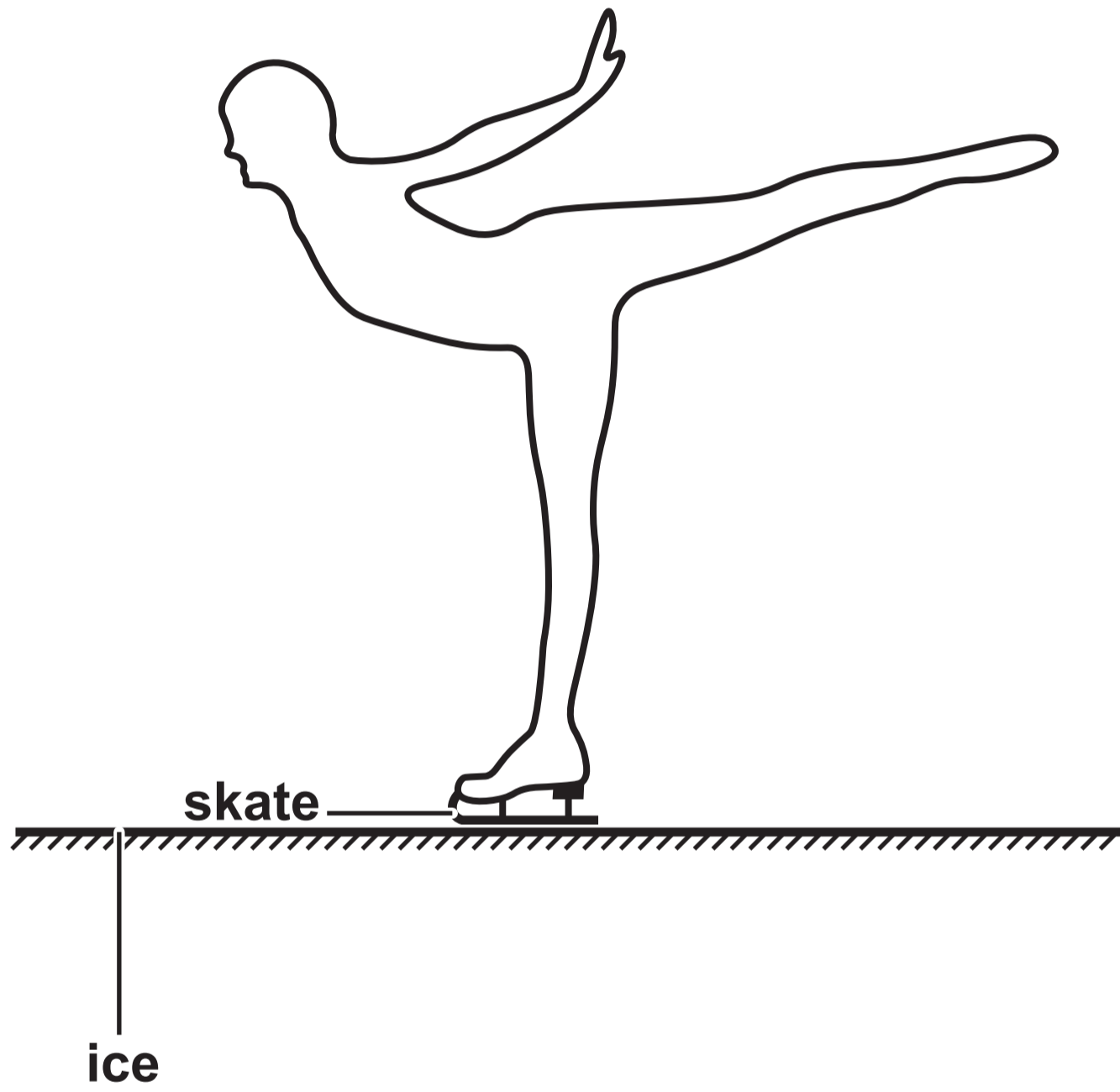


diagram D



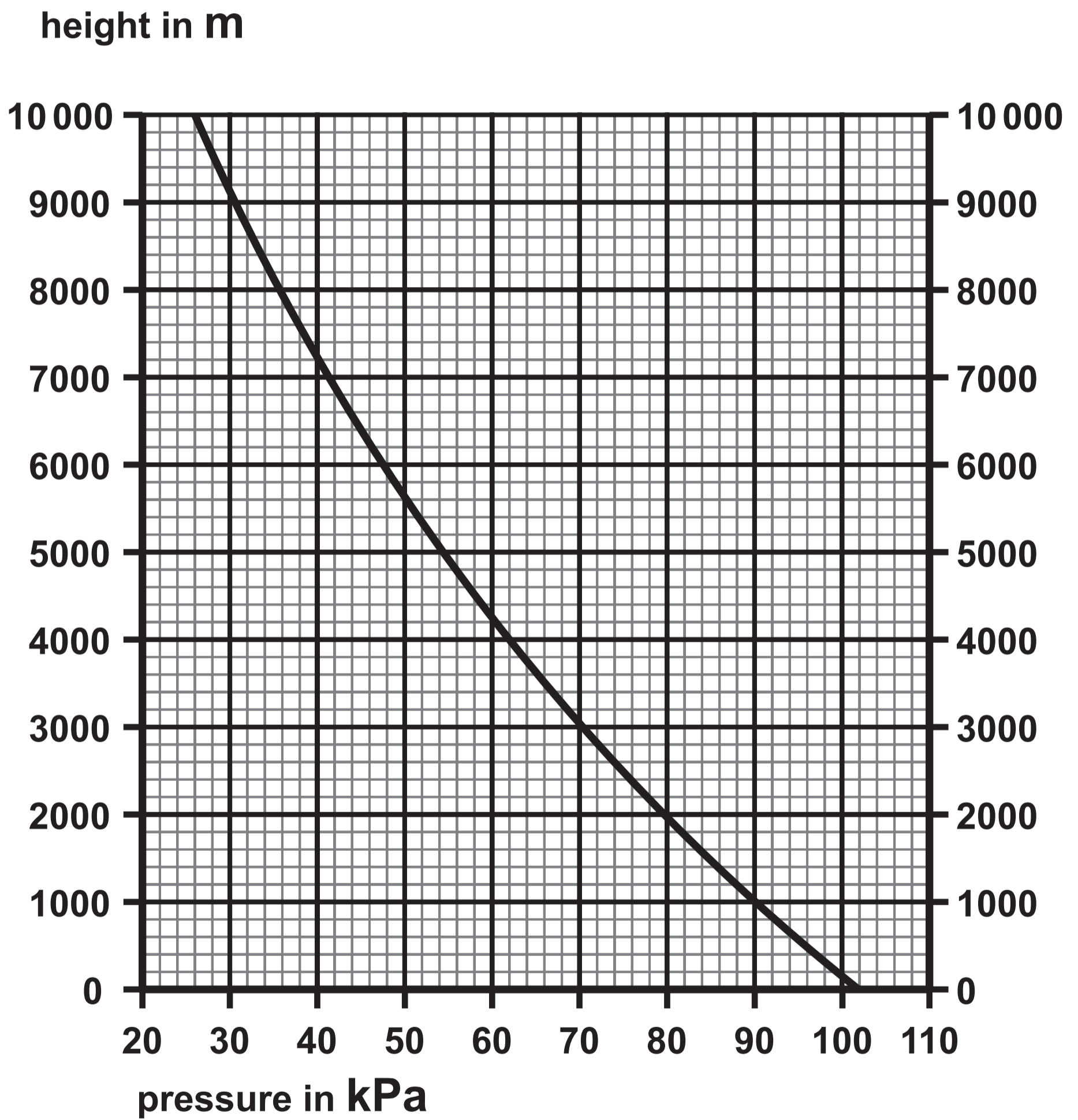
## Question 10(b)

FIGURE 26



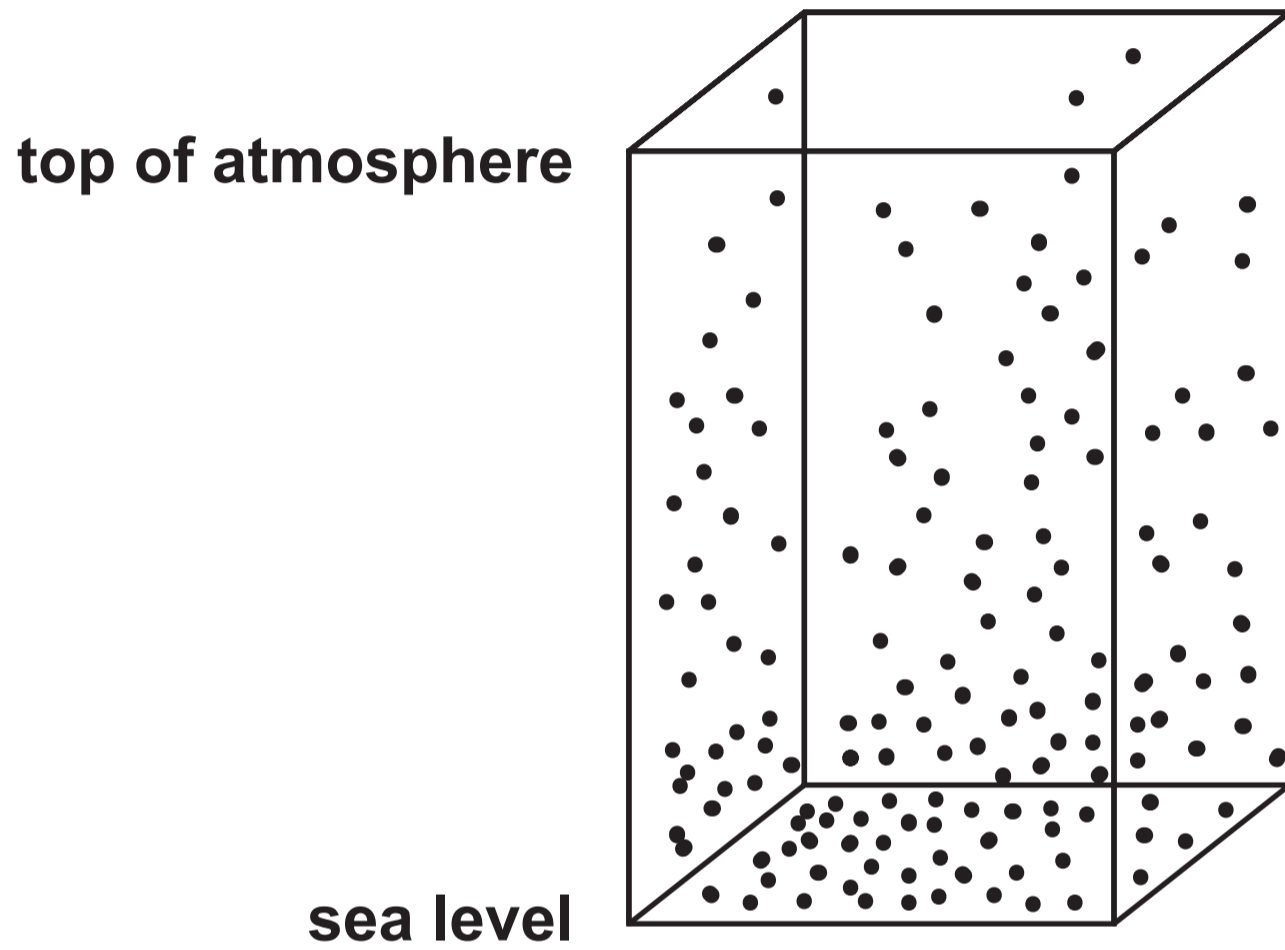
## Question 10(c)

FIGURE 27



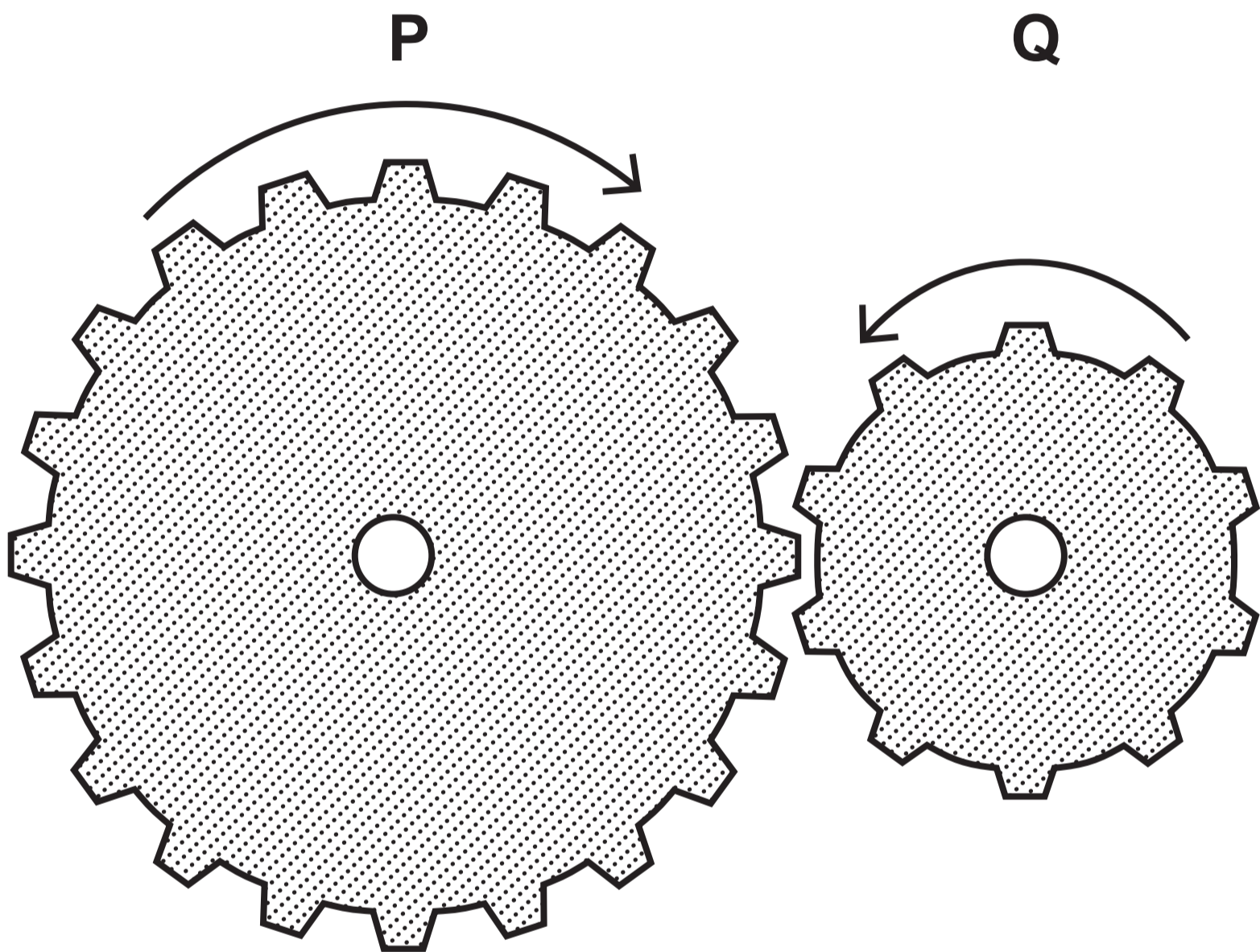
## Question 10(d)

FIGURE 28



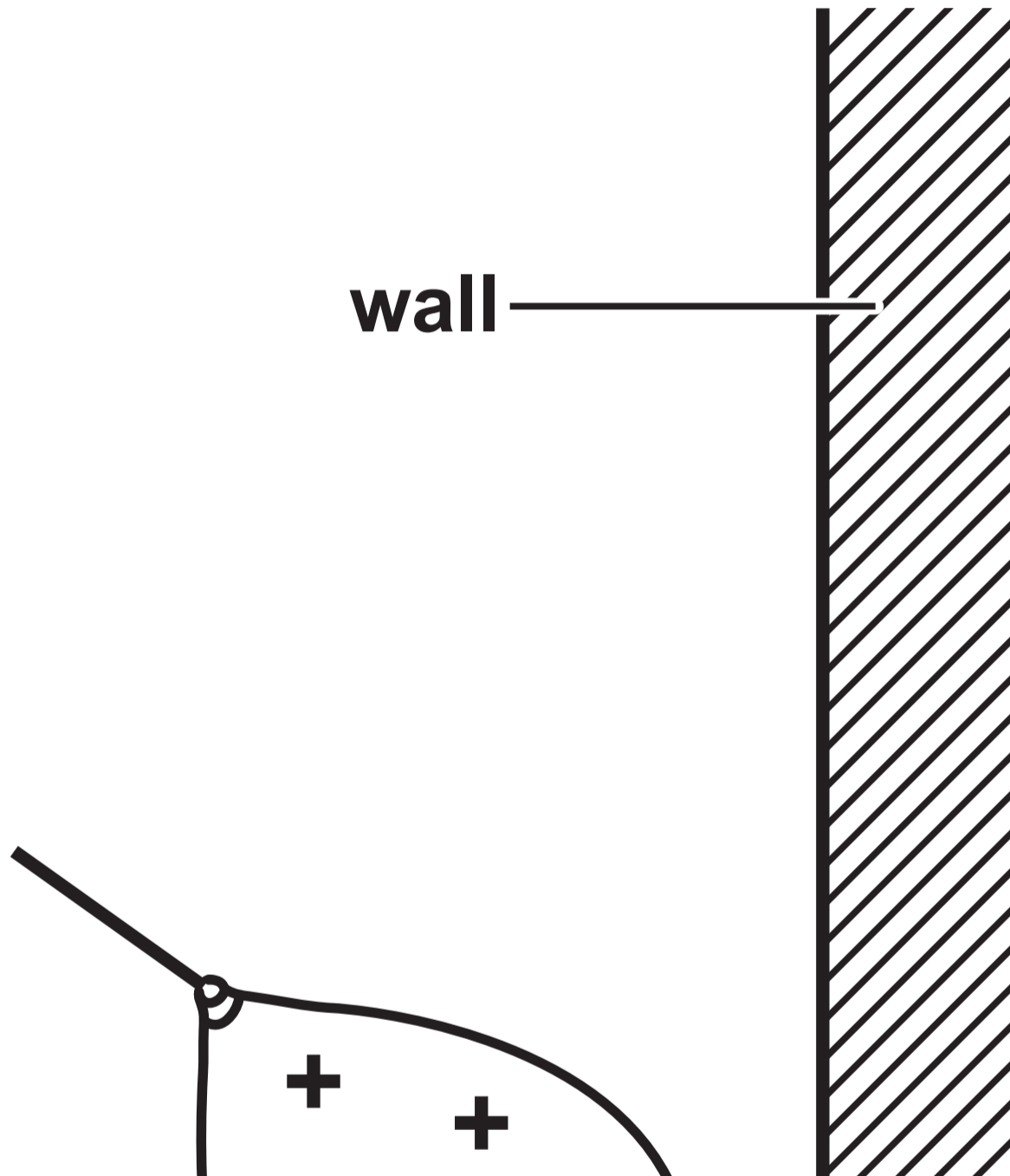
## Question 2(a)

FIGURE 2



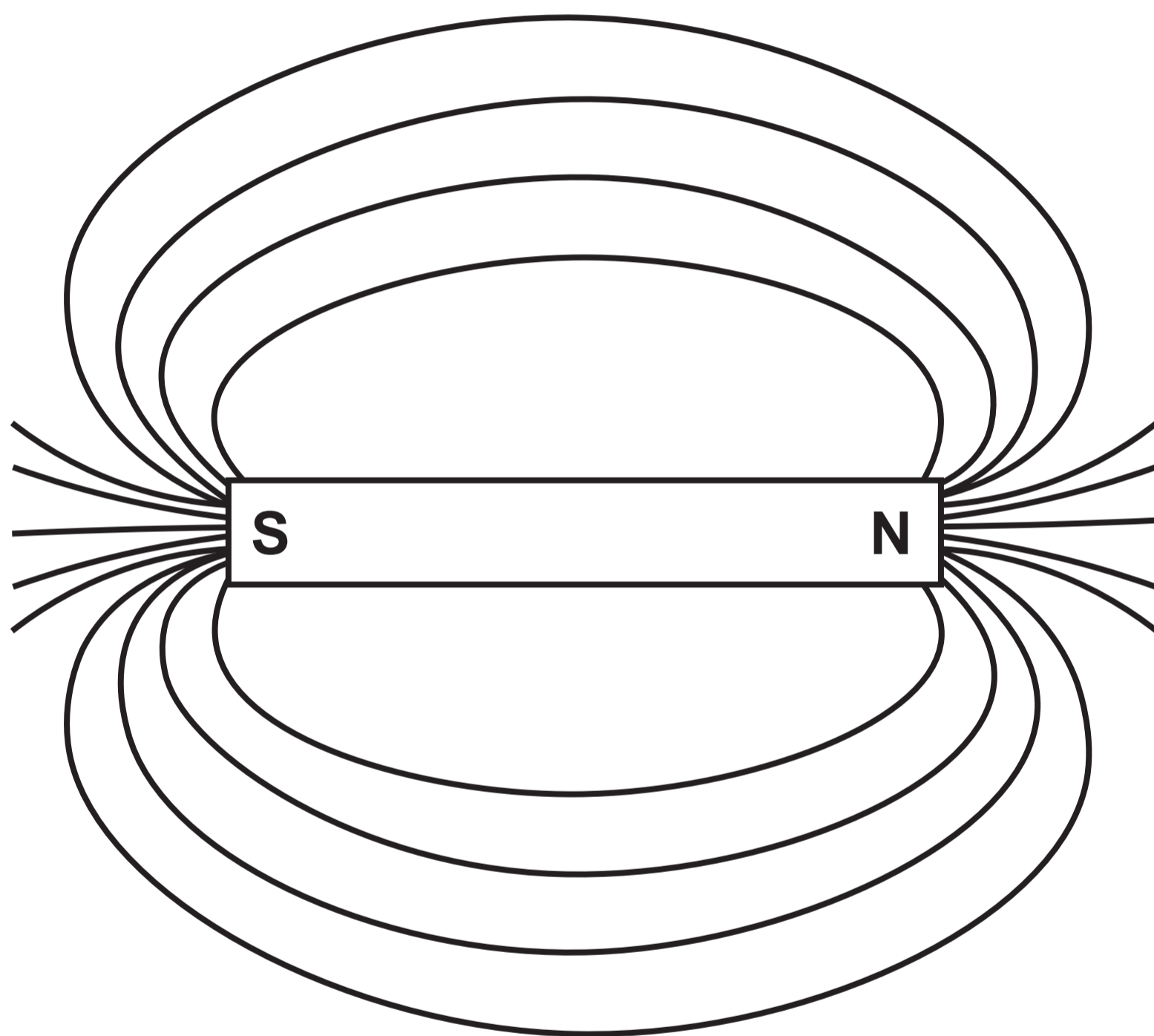
## Question 3(b)

FIGURE 6



Question 4(a)

FIGURE 8



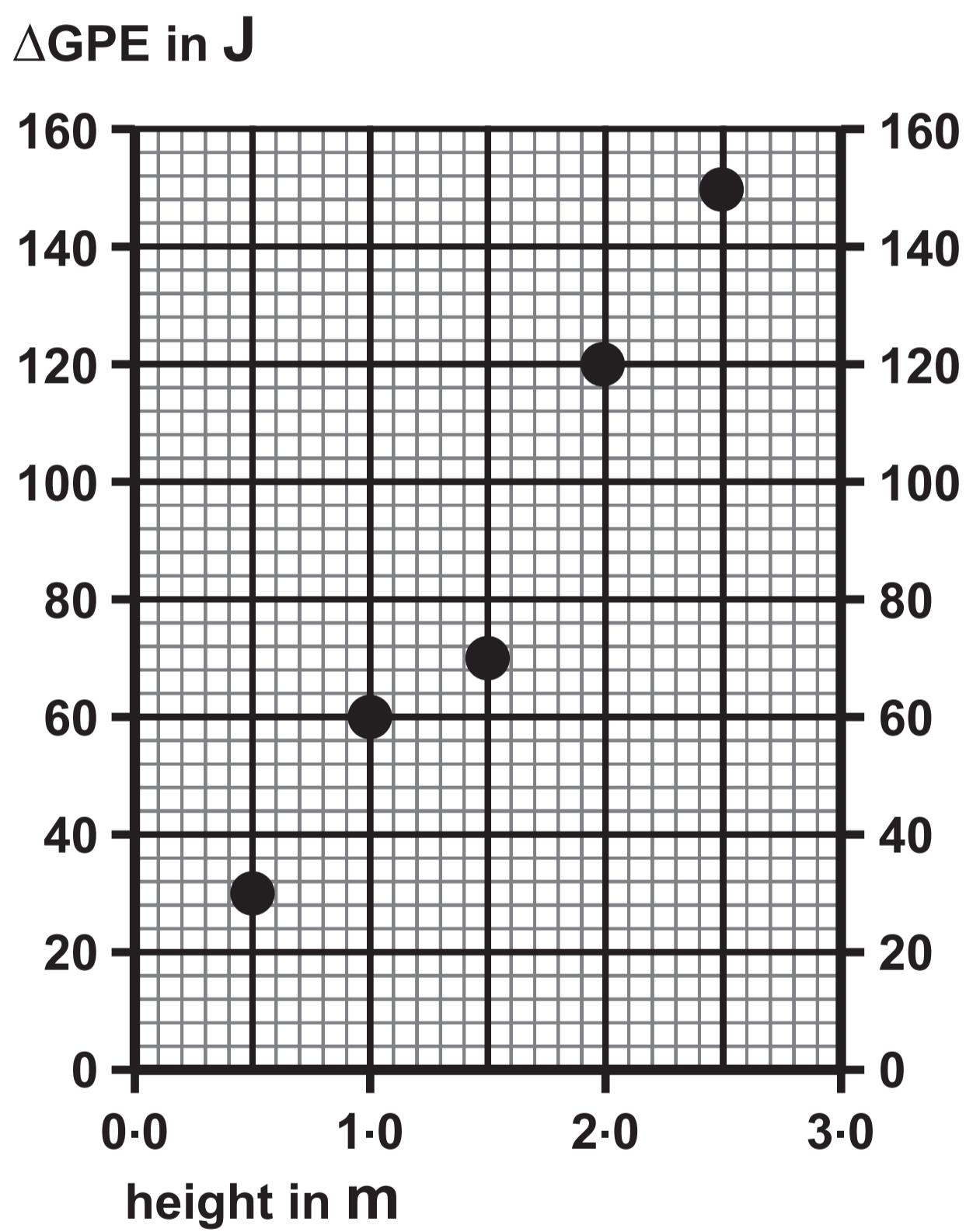
Question 4(b)

FIGURE 9



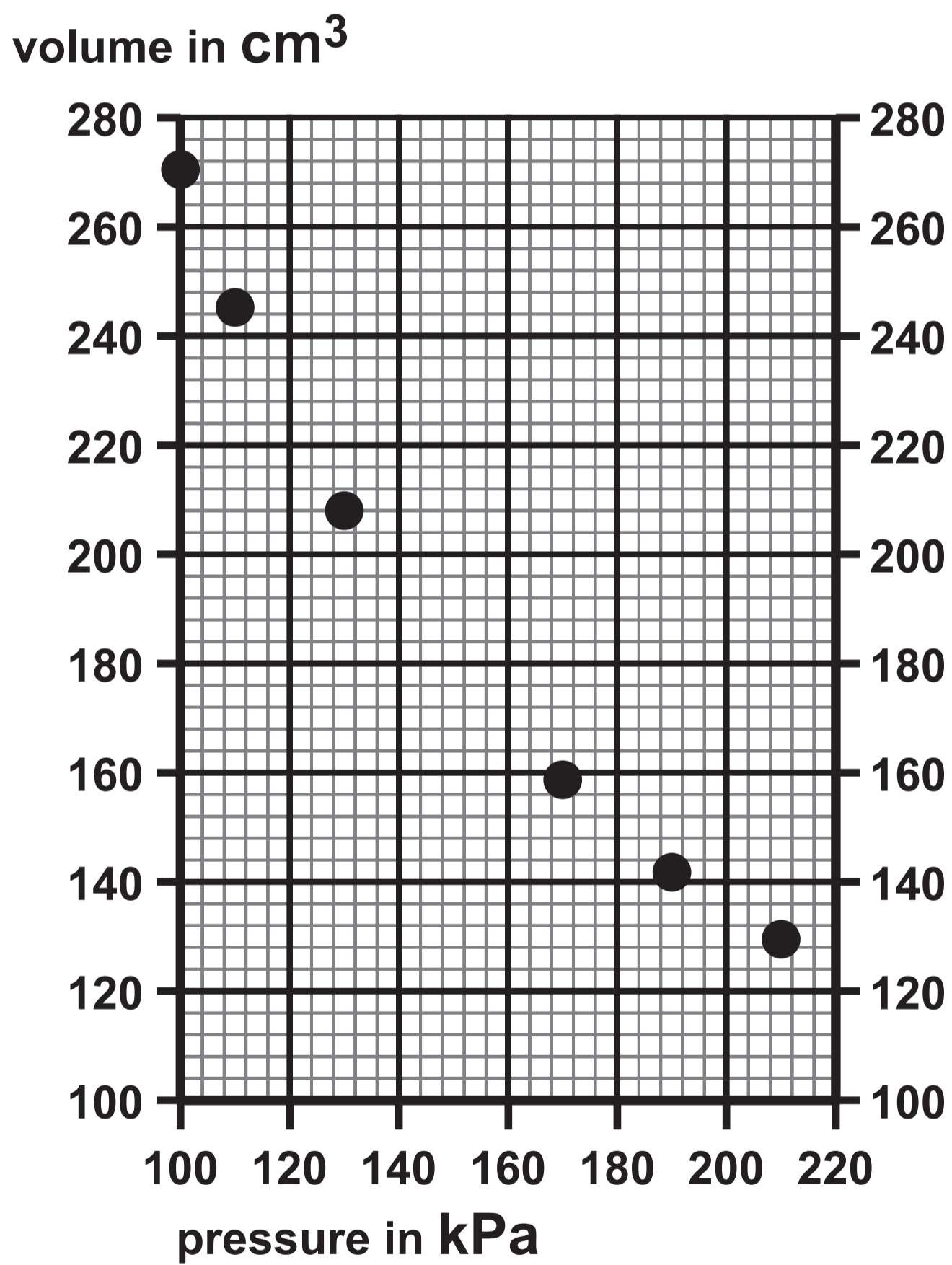
## Question 5(c)

FIGURE 13



## Question 7(a)

FIGURE 17



## Question 8(b)

FIGURE 21

