

Physics
PAPER 2
Higher Tier

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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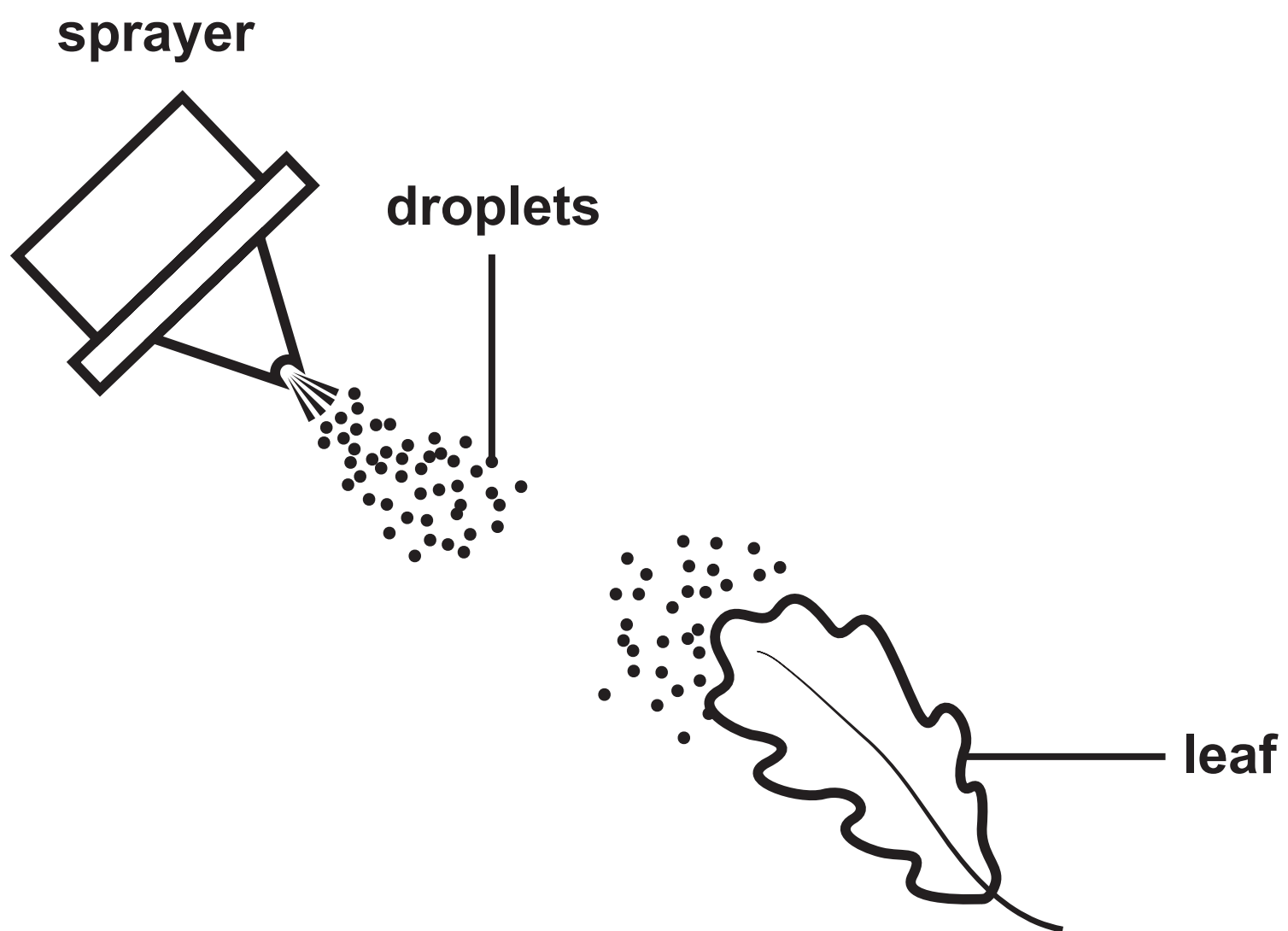
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Question 1(a)**FIGURE 1**

Question 1(a)**FIGURE 1**

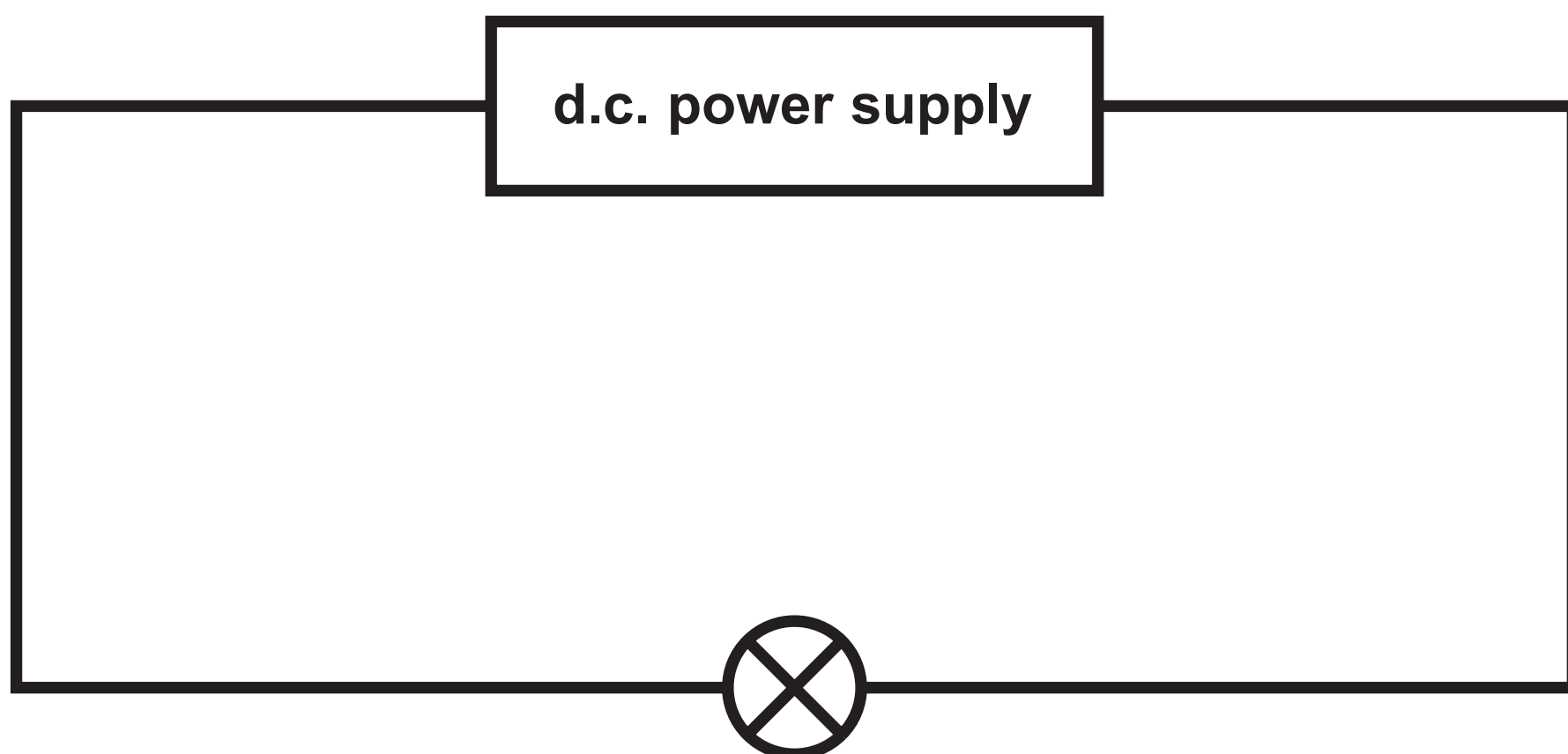
Question 1(c)

FIGURE 2



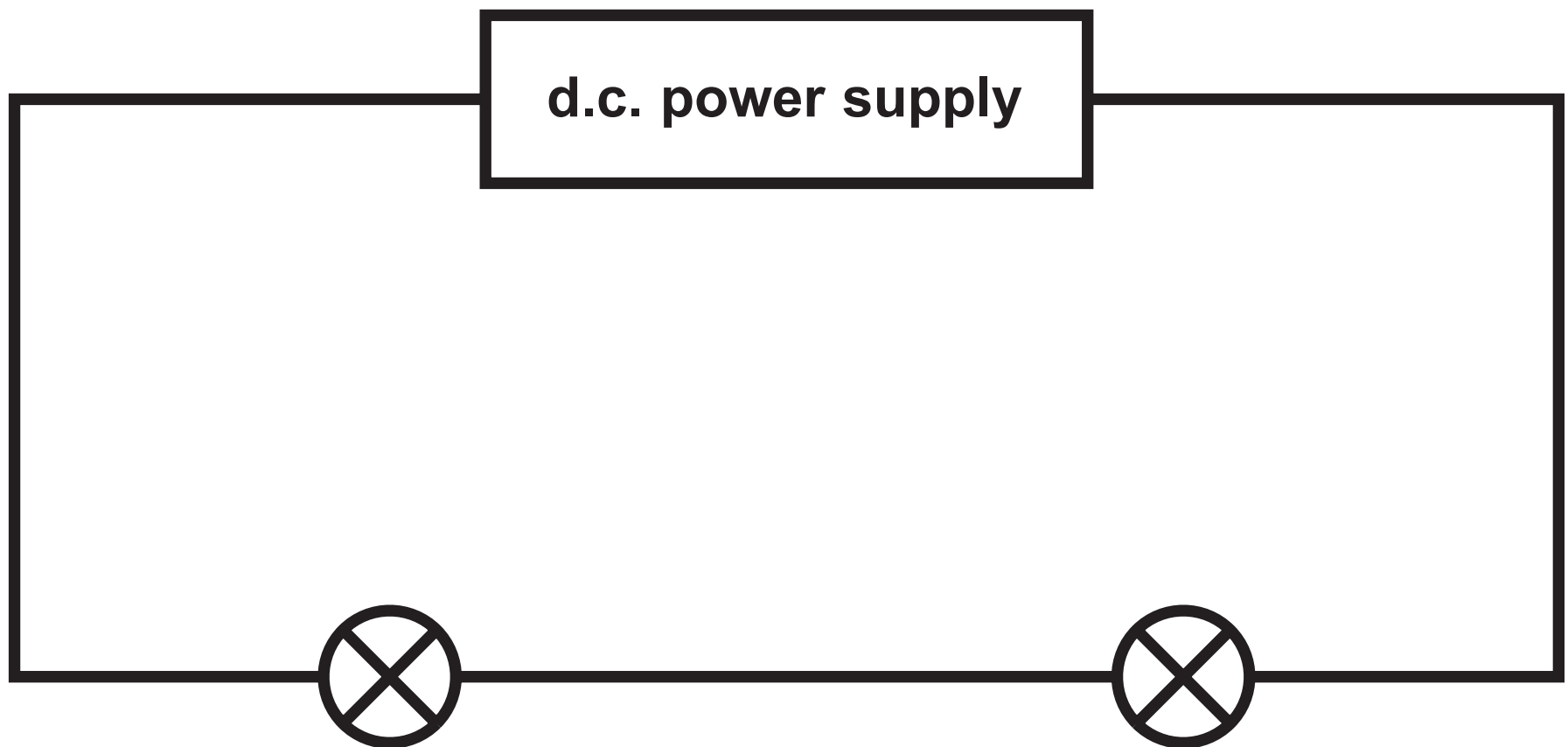
Question 2(a)

FIGURE 3



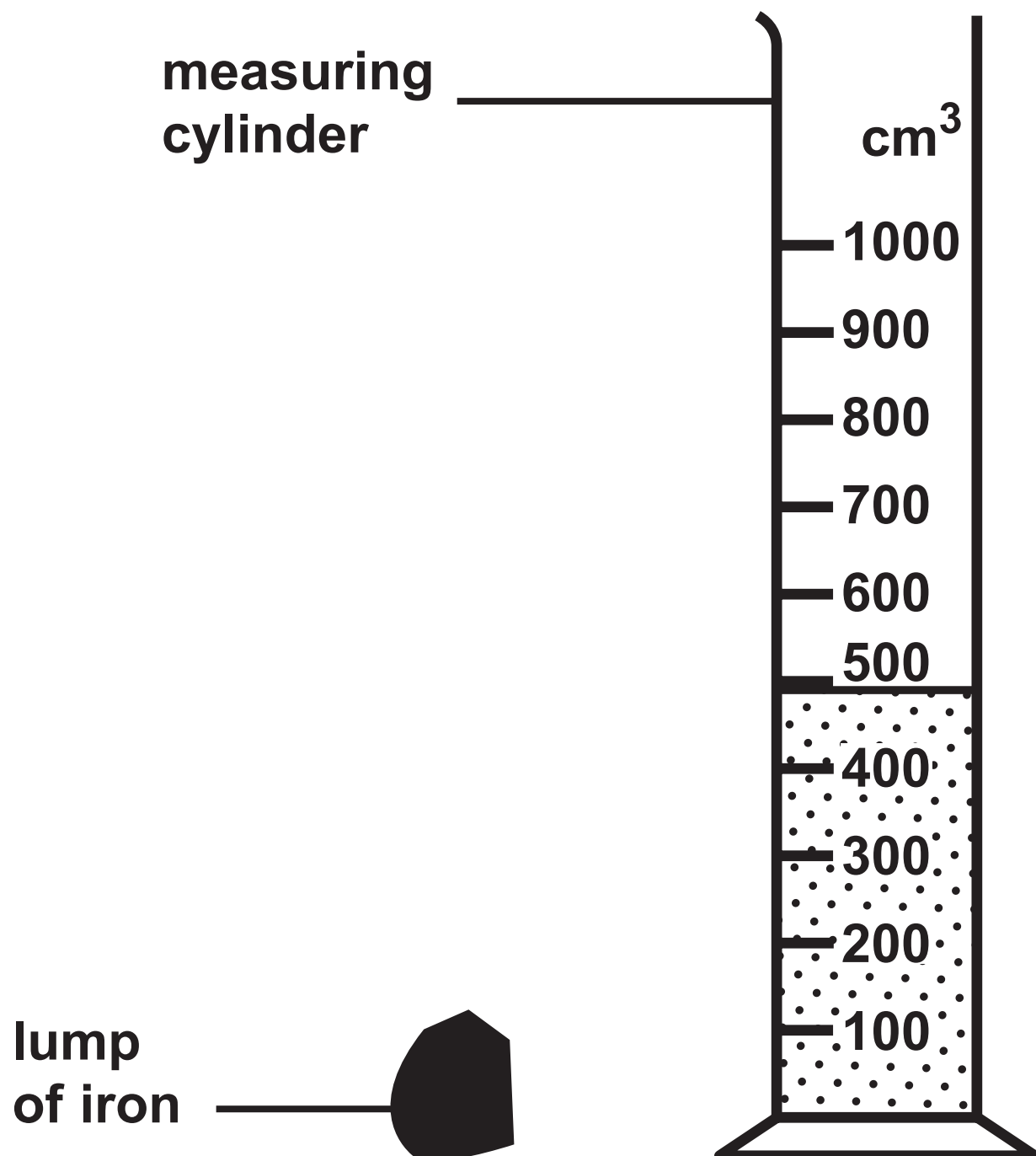
Question 2(b)

FIGURE 4



Question 3(b)

FIGURE 5



Question 4(a)(ii)

FIGURE 7

Both diagrams are drawn to the same scale.

donkey hoof

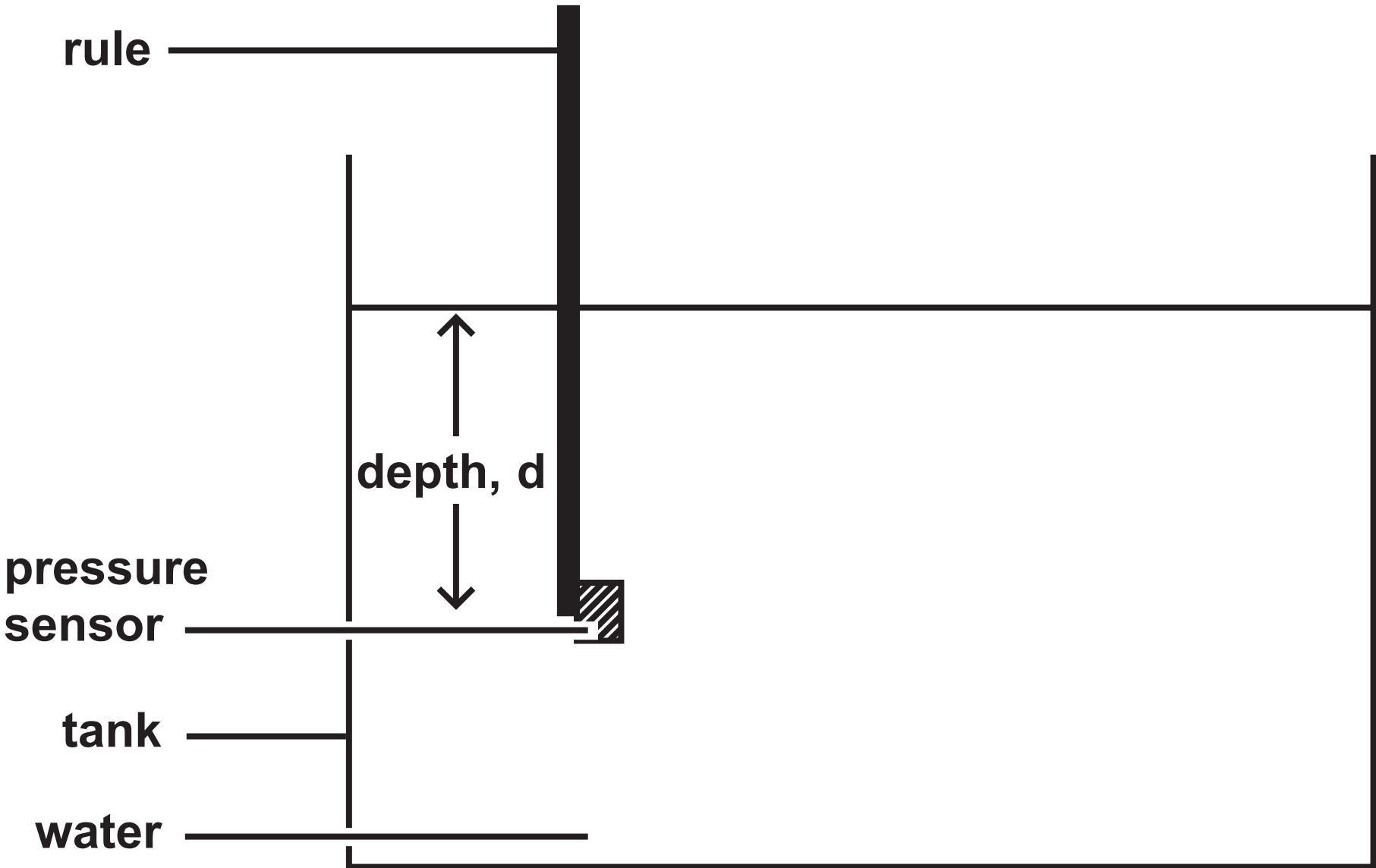


camel hoof



Question 4(b)

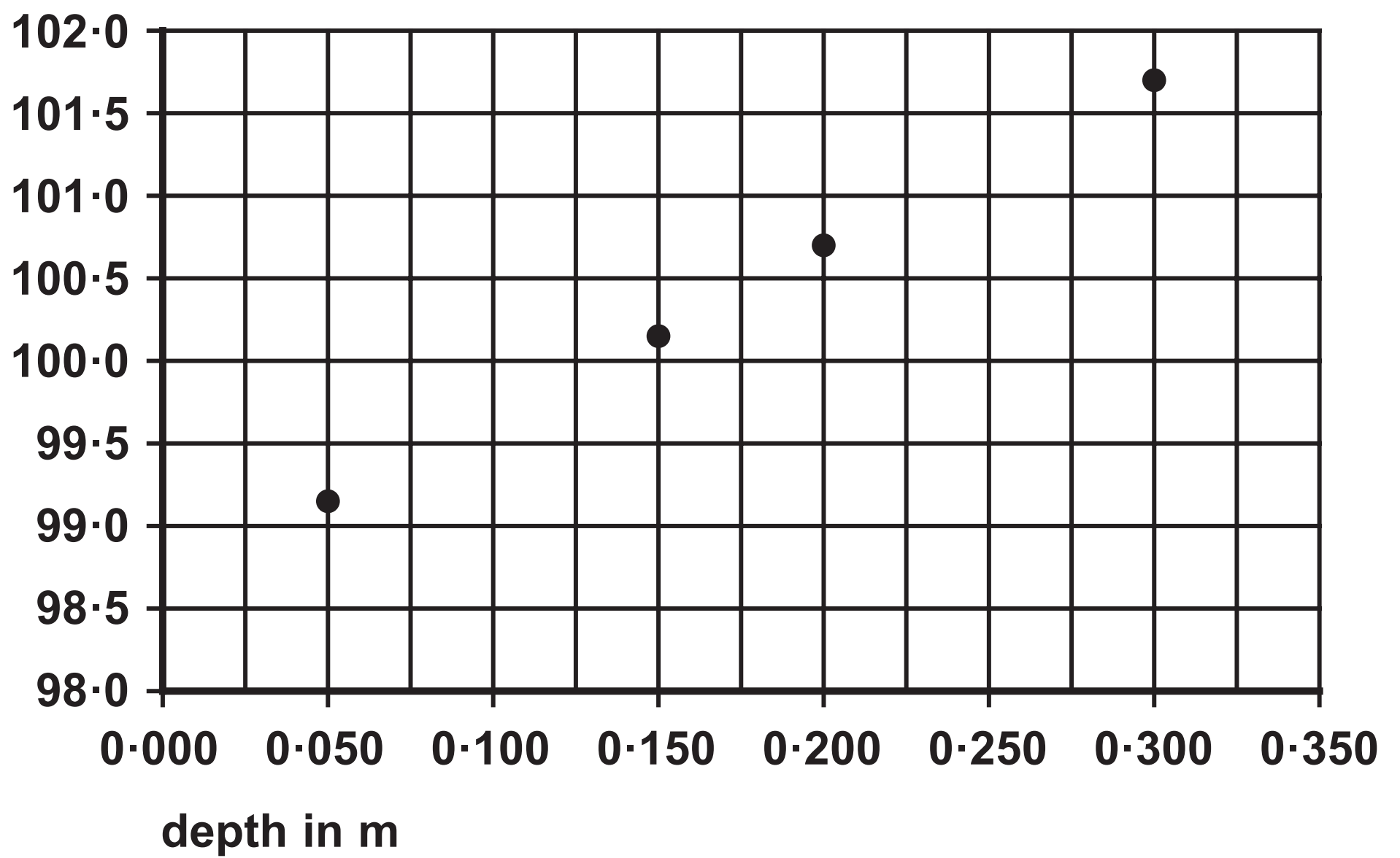
FIGURE 8



Question 4(b)

FIGURE 10

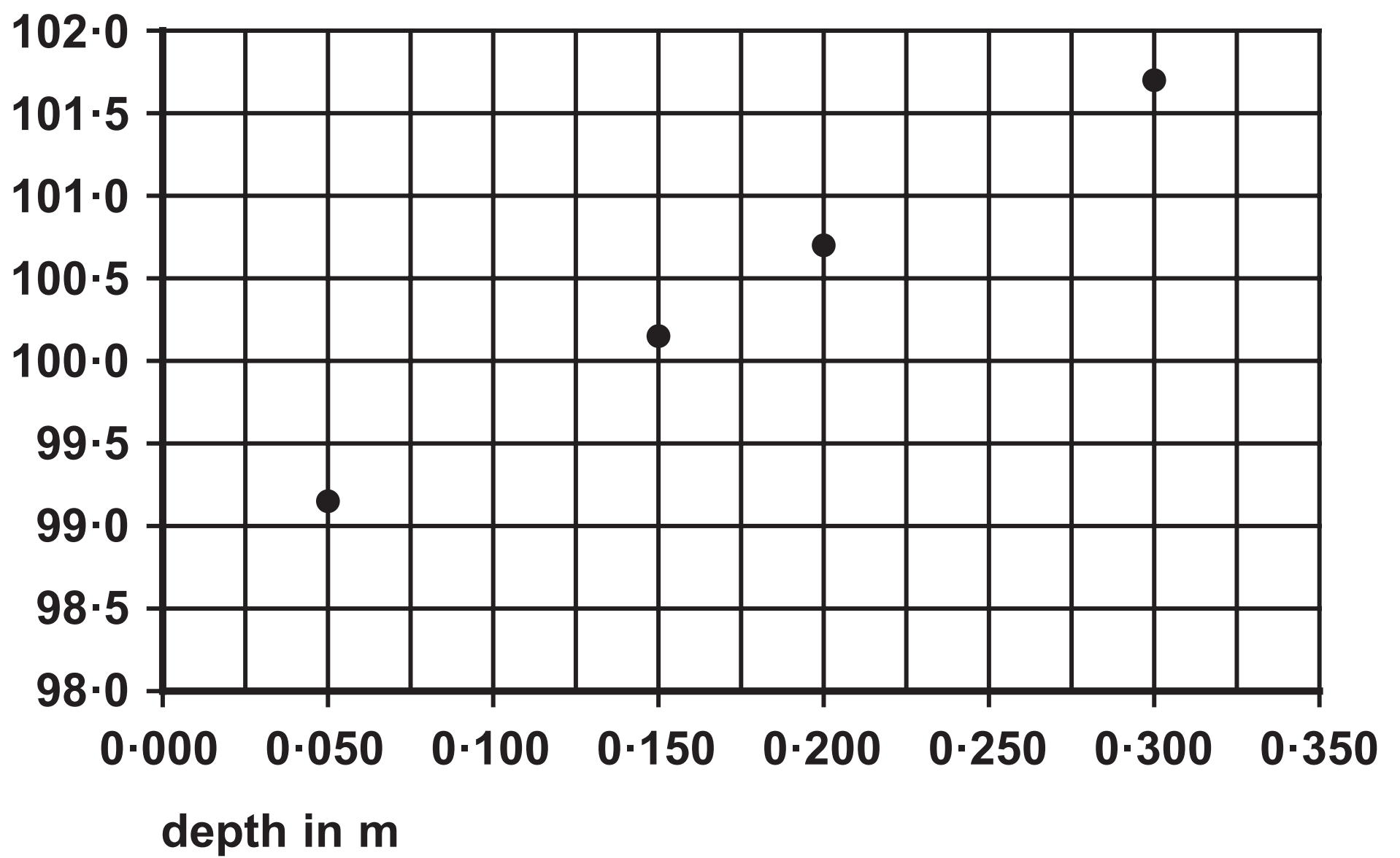
pressure
in kPa



Question 4(b)

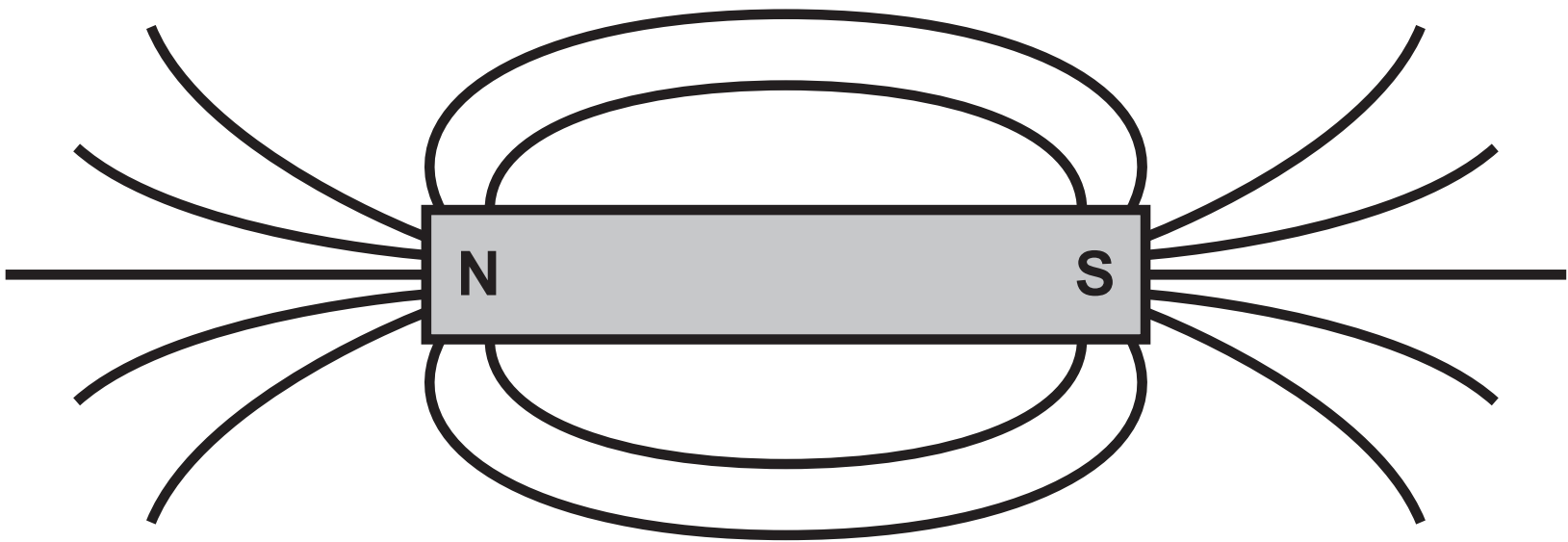
FIGURE 10

pressure
in kPa



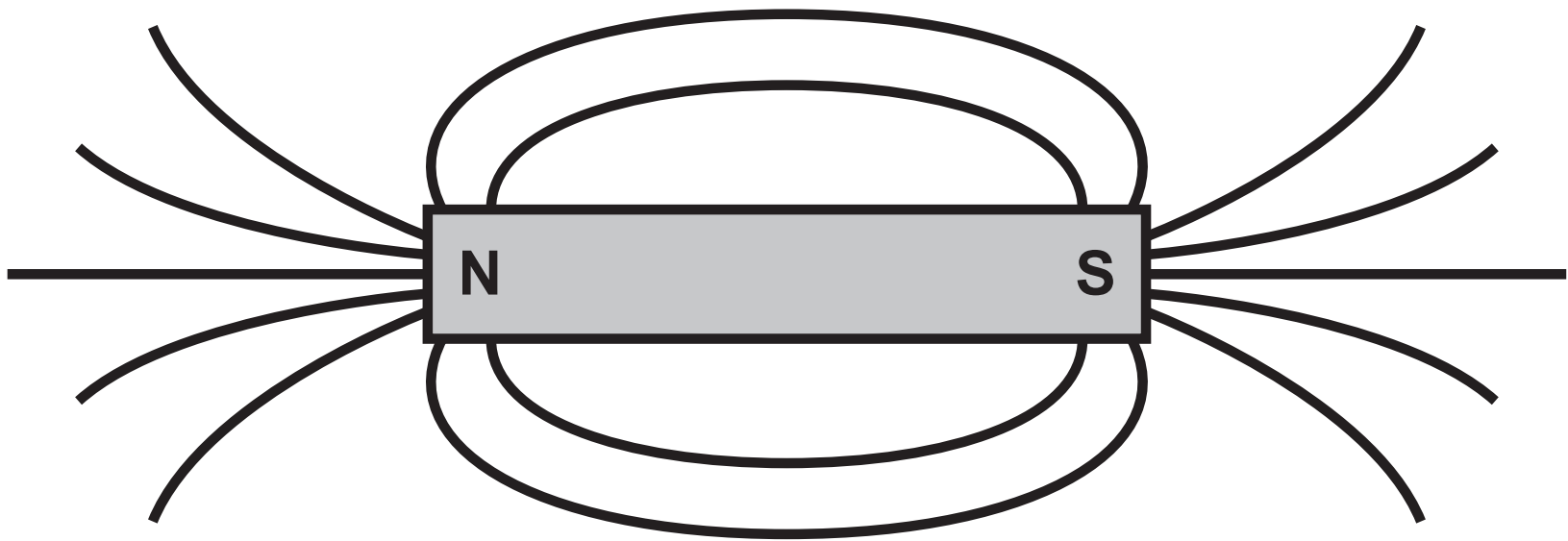
Question 5(a)

FIGURE 11



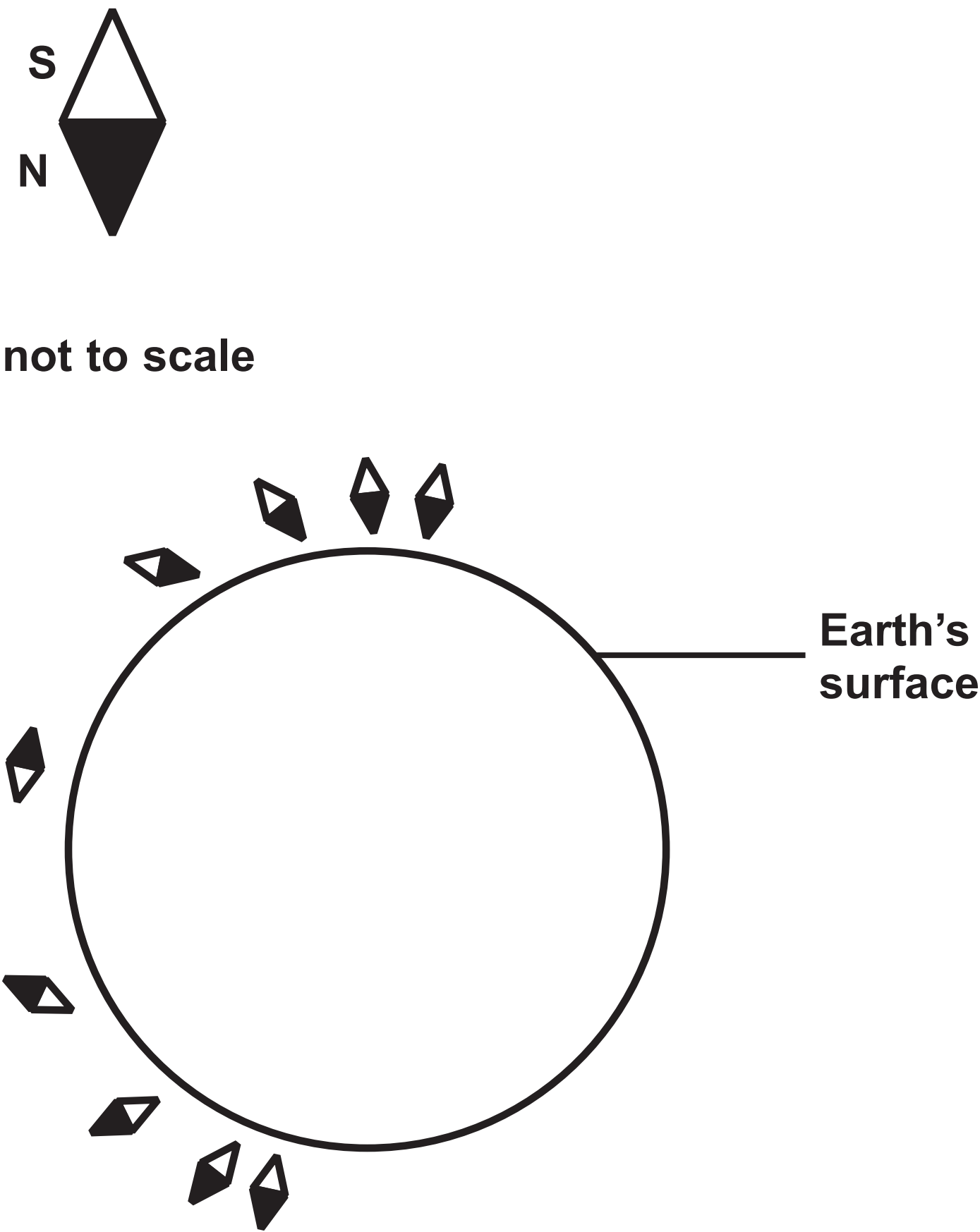
Question 5(a)

FIGURE 11



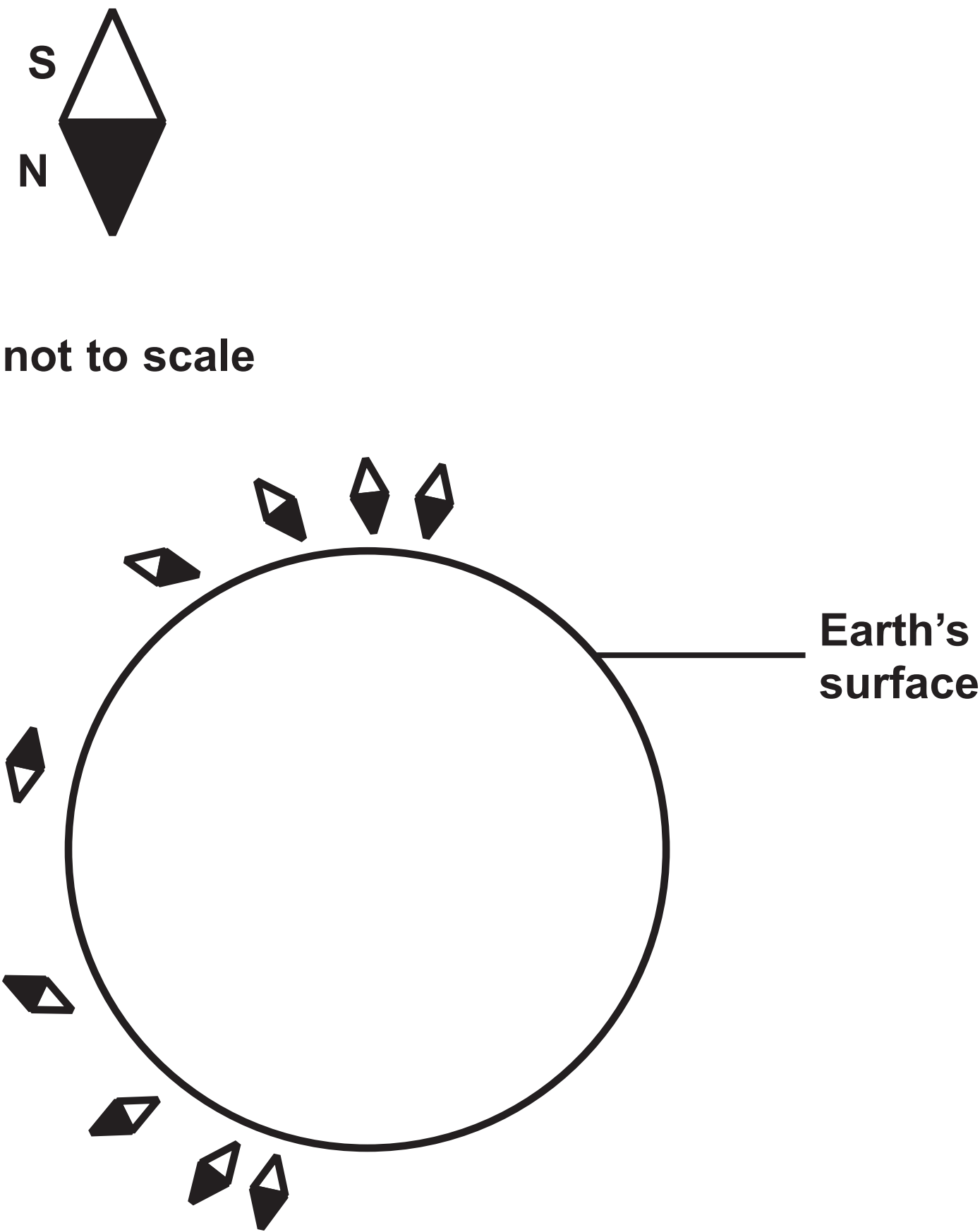
Question 5(c)

FIGURE 12



Question 5(c)

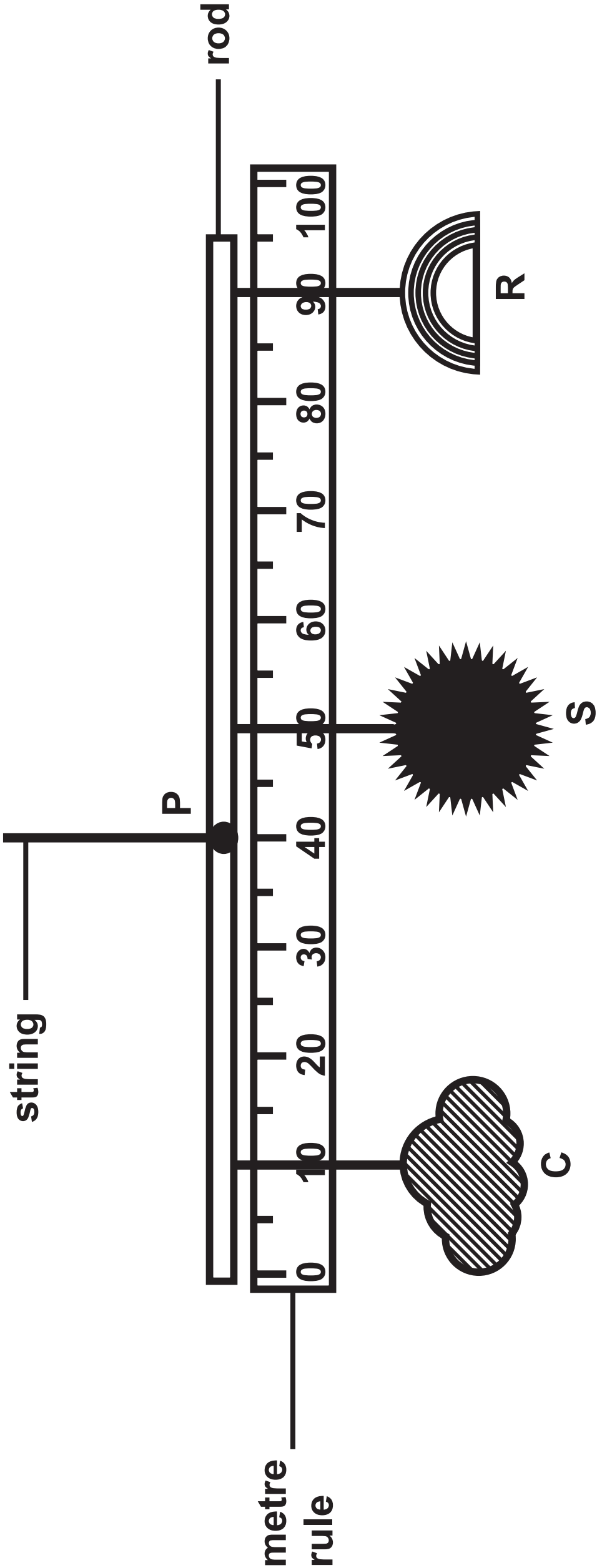
FIGURE 12



Question 6(b)

FIGURE 13

weight of S = 2.0 N weight of R = 1.0 N



Question 6(c)

FIGURE 14a

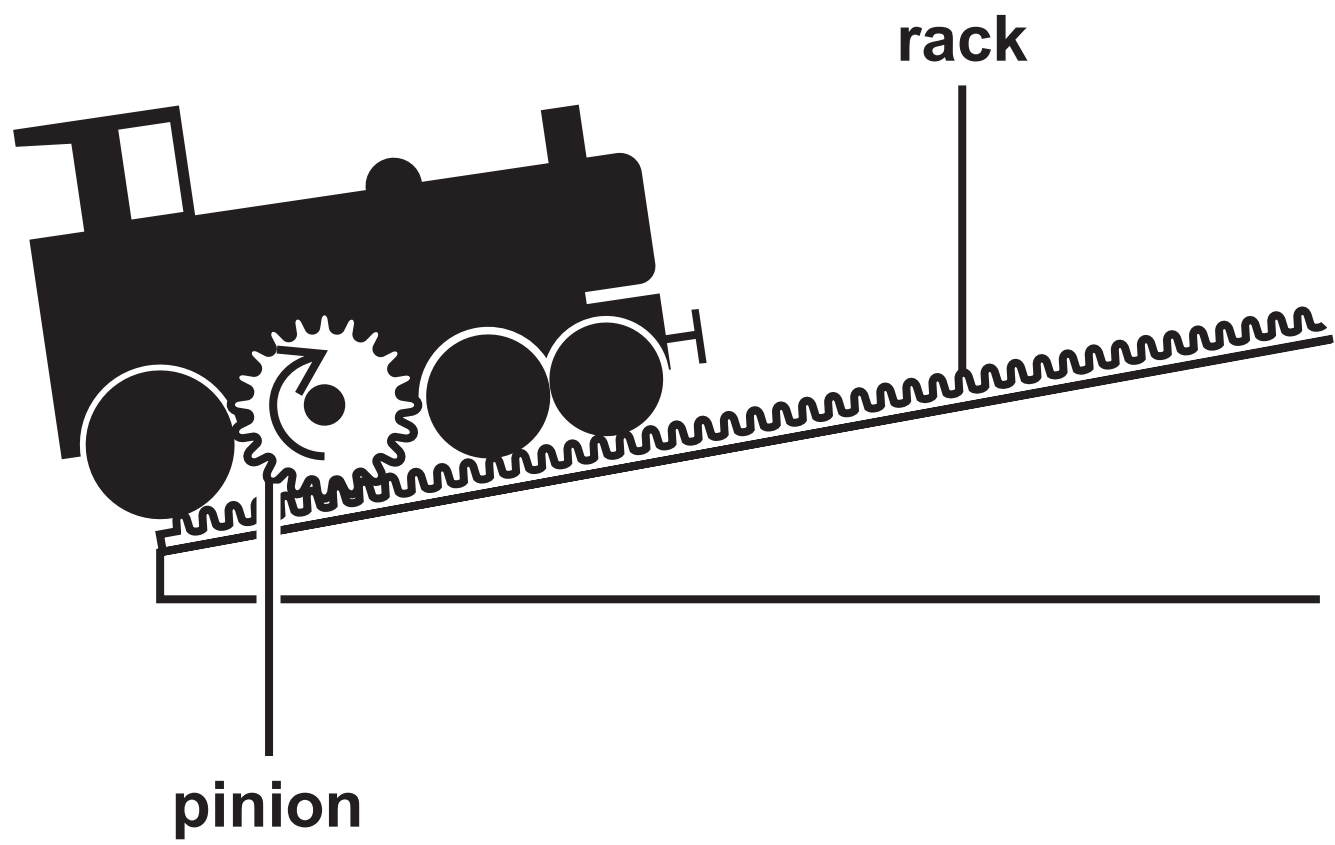
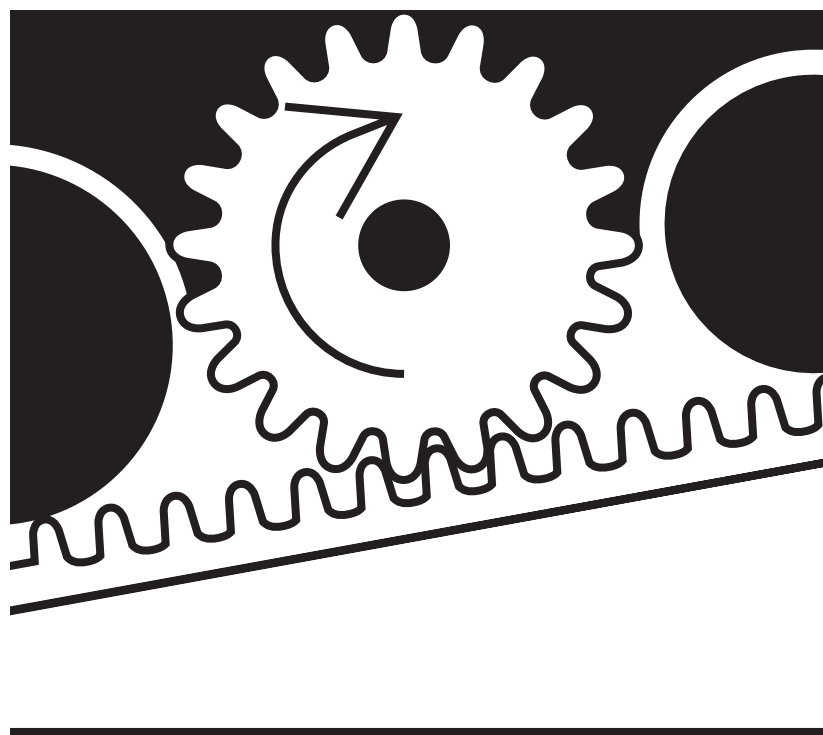


FIGURE 14b

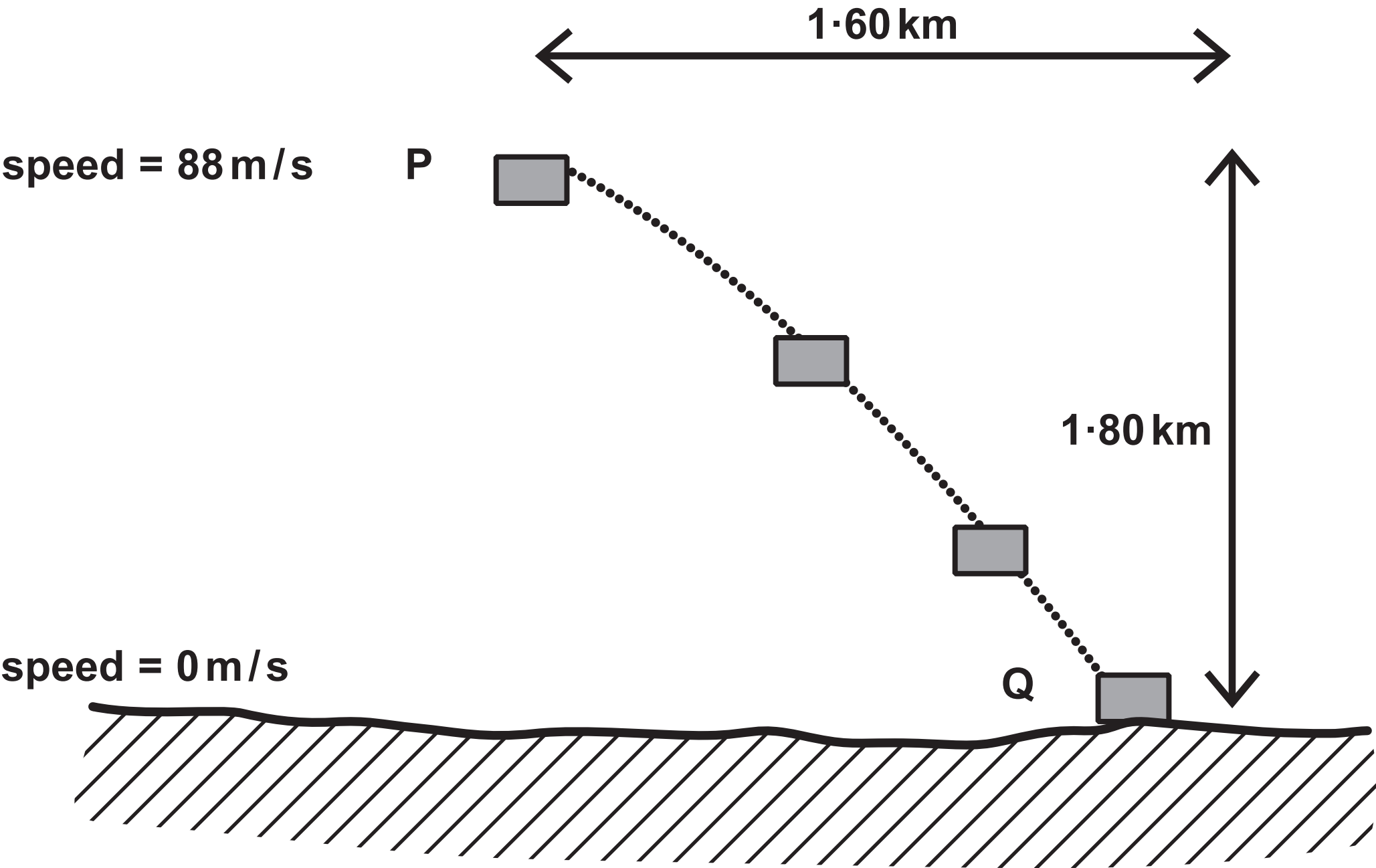


Question 7(a)

FIGURE 15

KEY

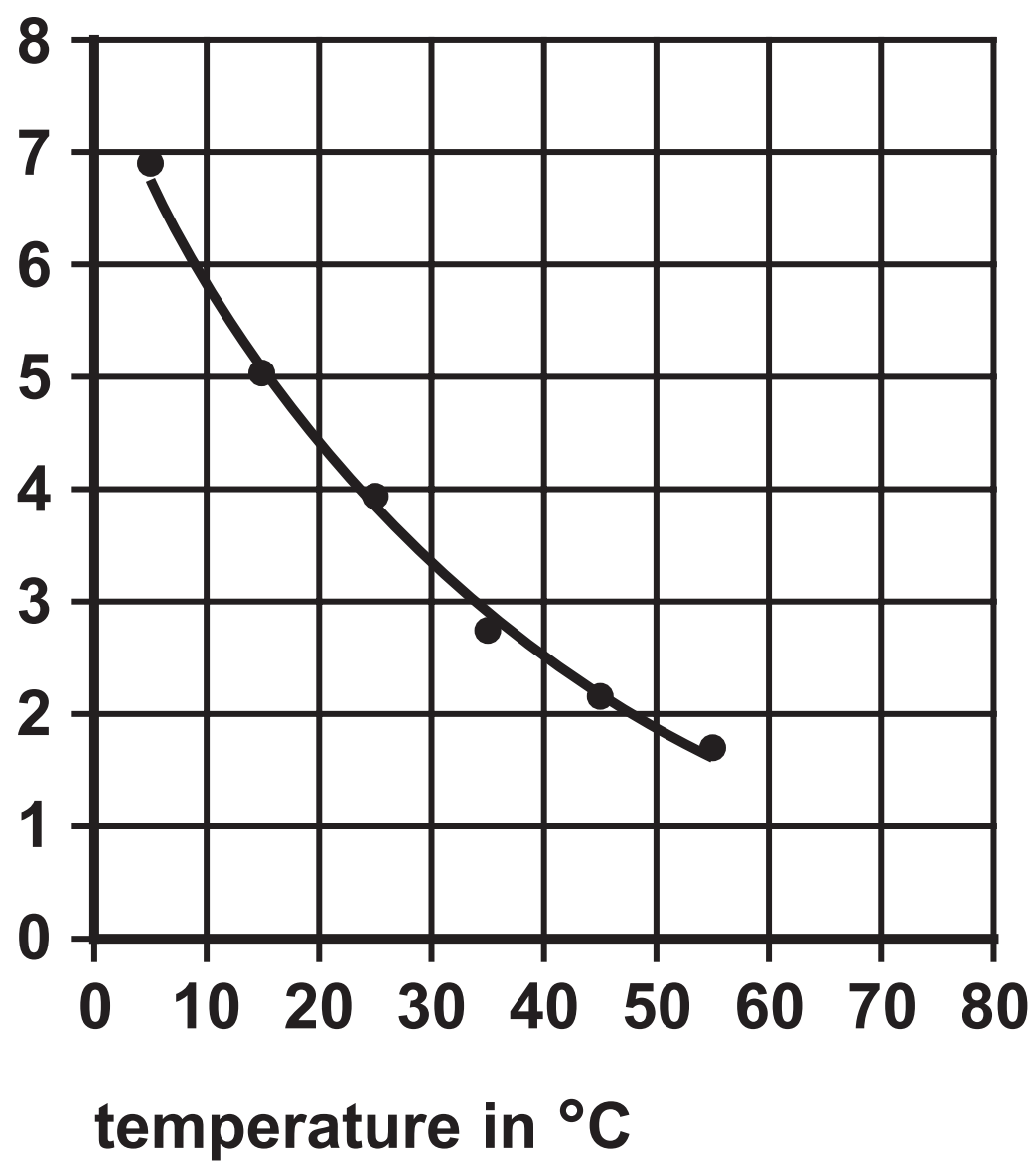
 Mars rover



Question 8(b)

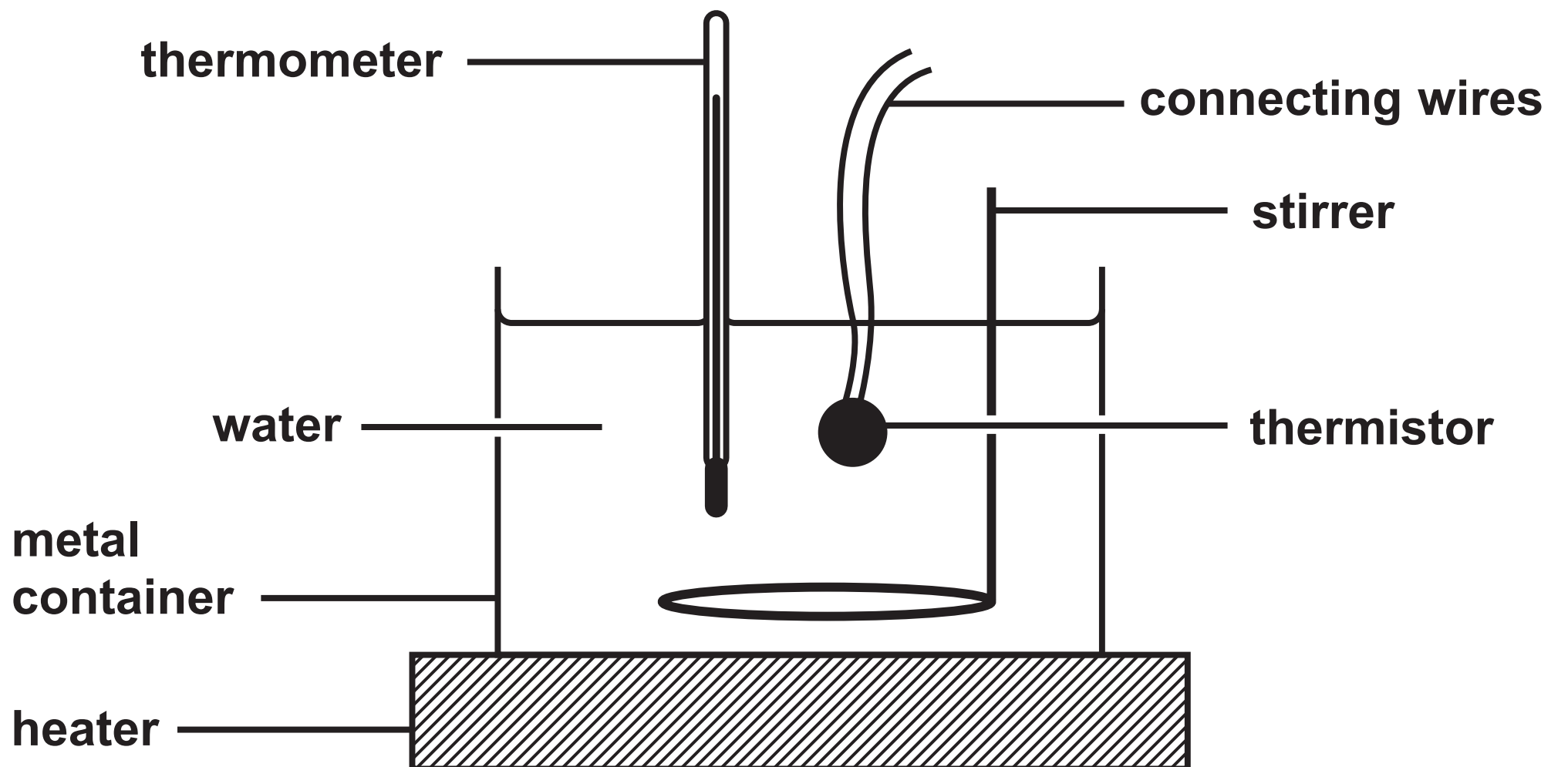
FIGURE 16

resistance
in $\text{k}\Omega$



Question 8(c)(i)

FIGURE 17

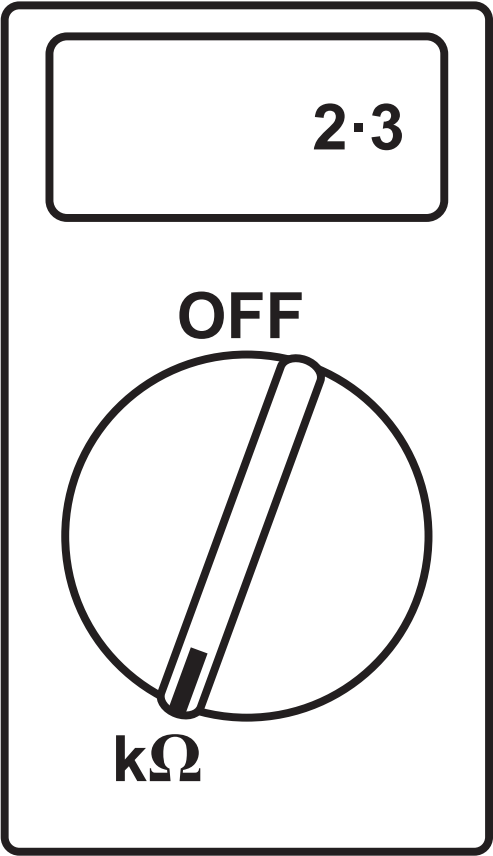


Question 8(c)(ii)

FIGURE 18

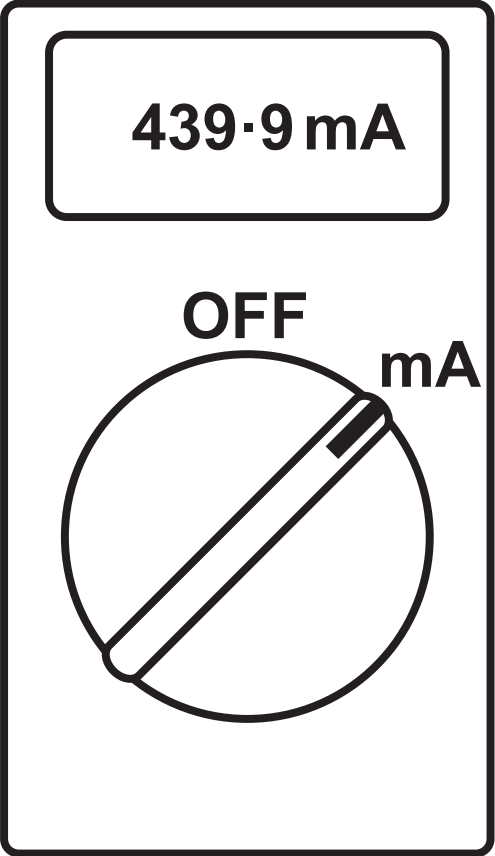
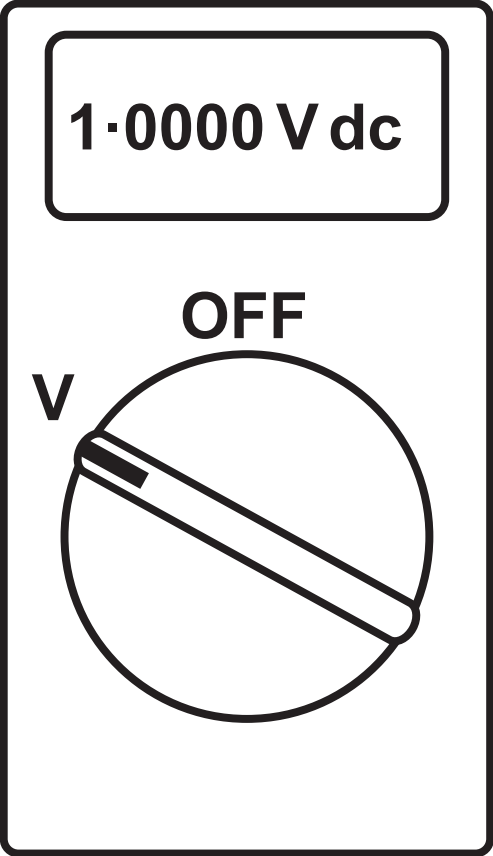
Method 1

using an ohmmeter



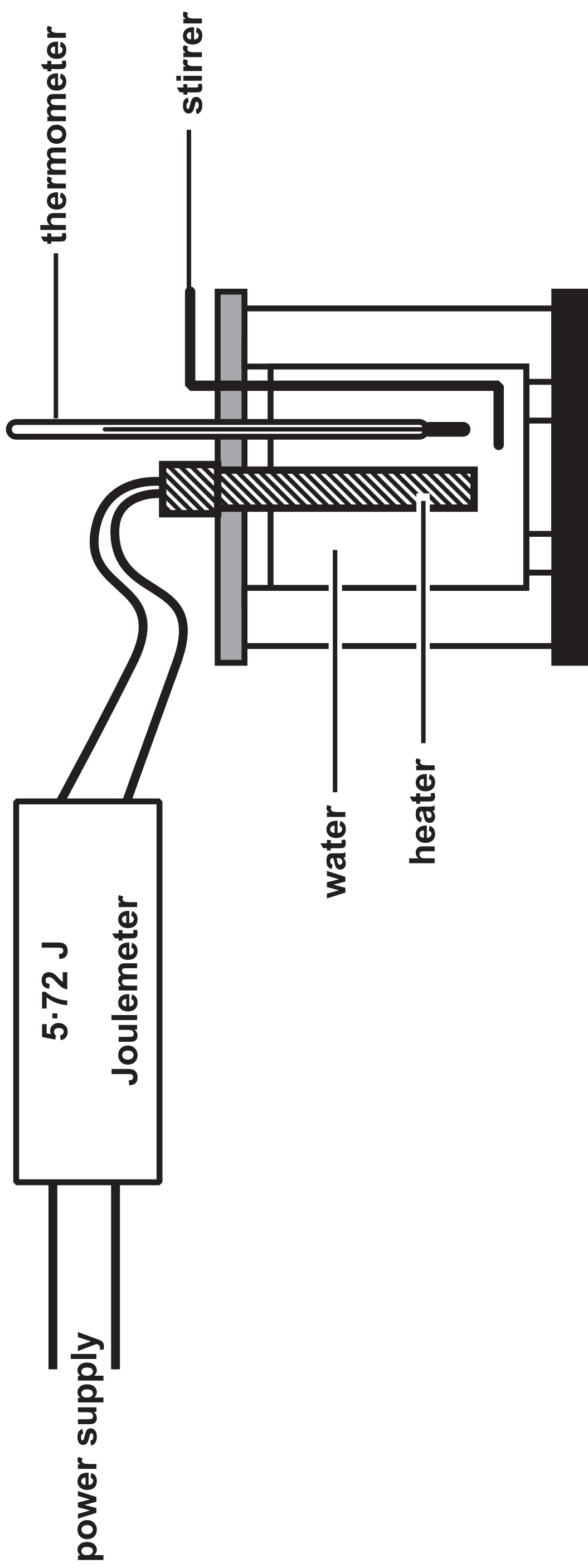
Method 2

using an ammeter and voltmeter



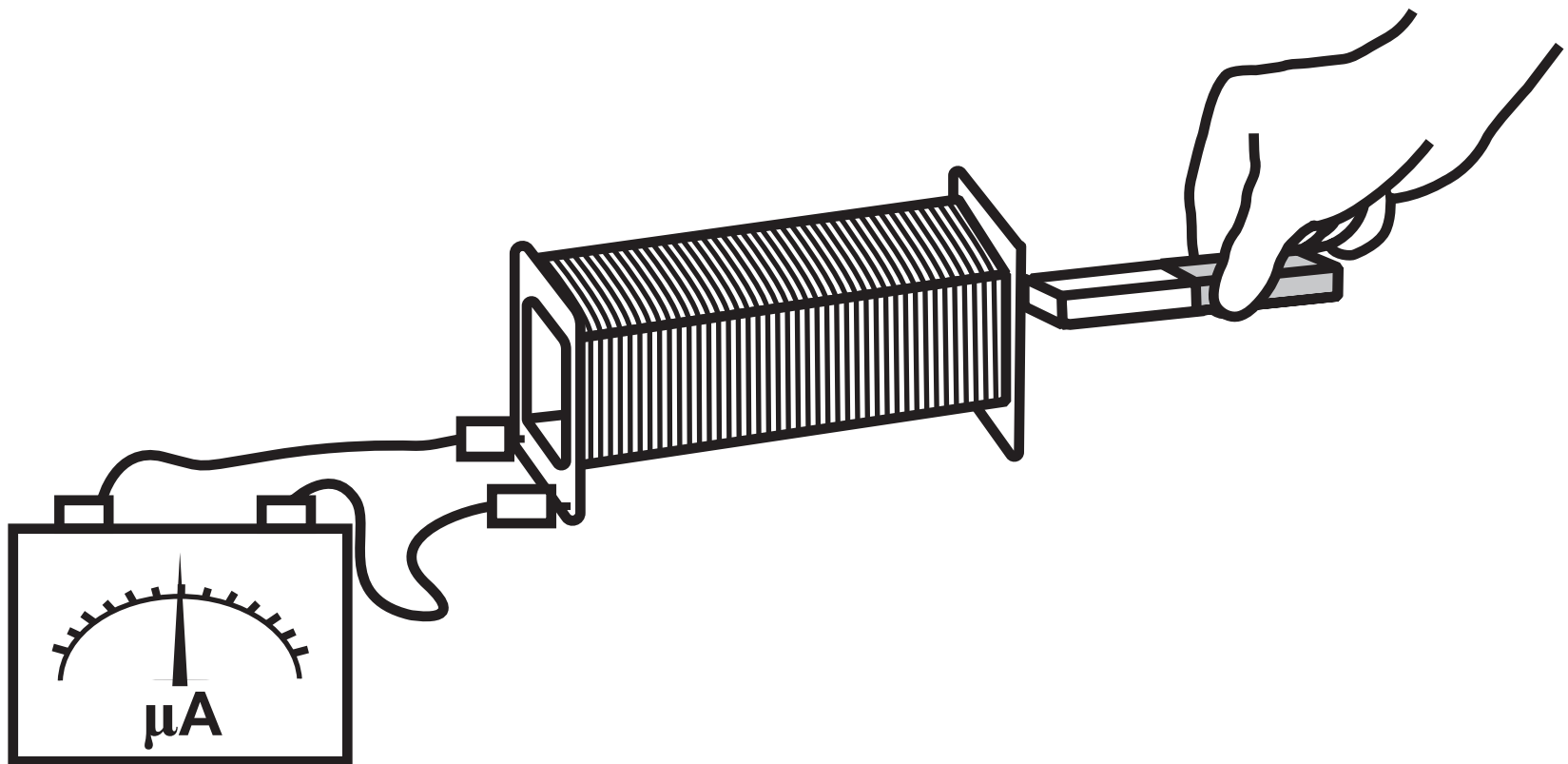
Question 9(b)

FIGURE 19



Question 10(a)

FIGURE 20

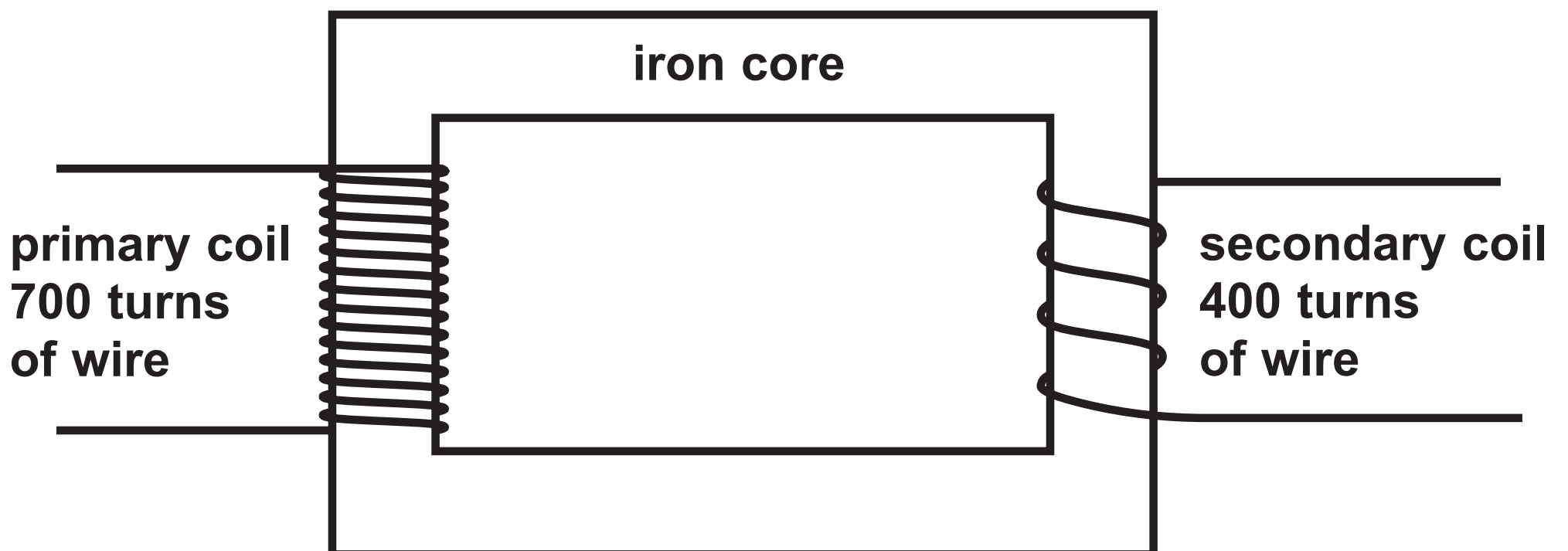


Question 10(b)

FIGURE 21

primary voltage = 230 V

secondary current = 1.75 A



Question 10(c)

FIGURE 22

not to scale

