

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

Physics
PAPER 2
Foundation 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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Question 1(a)

**circuit
symbol**

description

● **battery**

● **LED**

● **switch**

● **resistor**



Question 1(a)

**circuit
symbol**

description



● **battery**



● **LED**

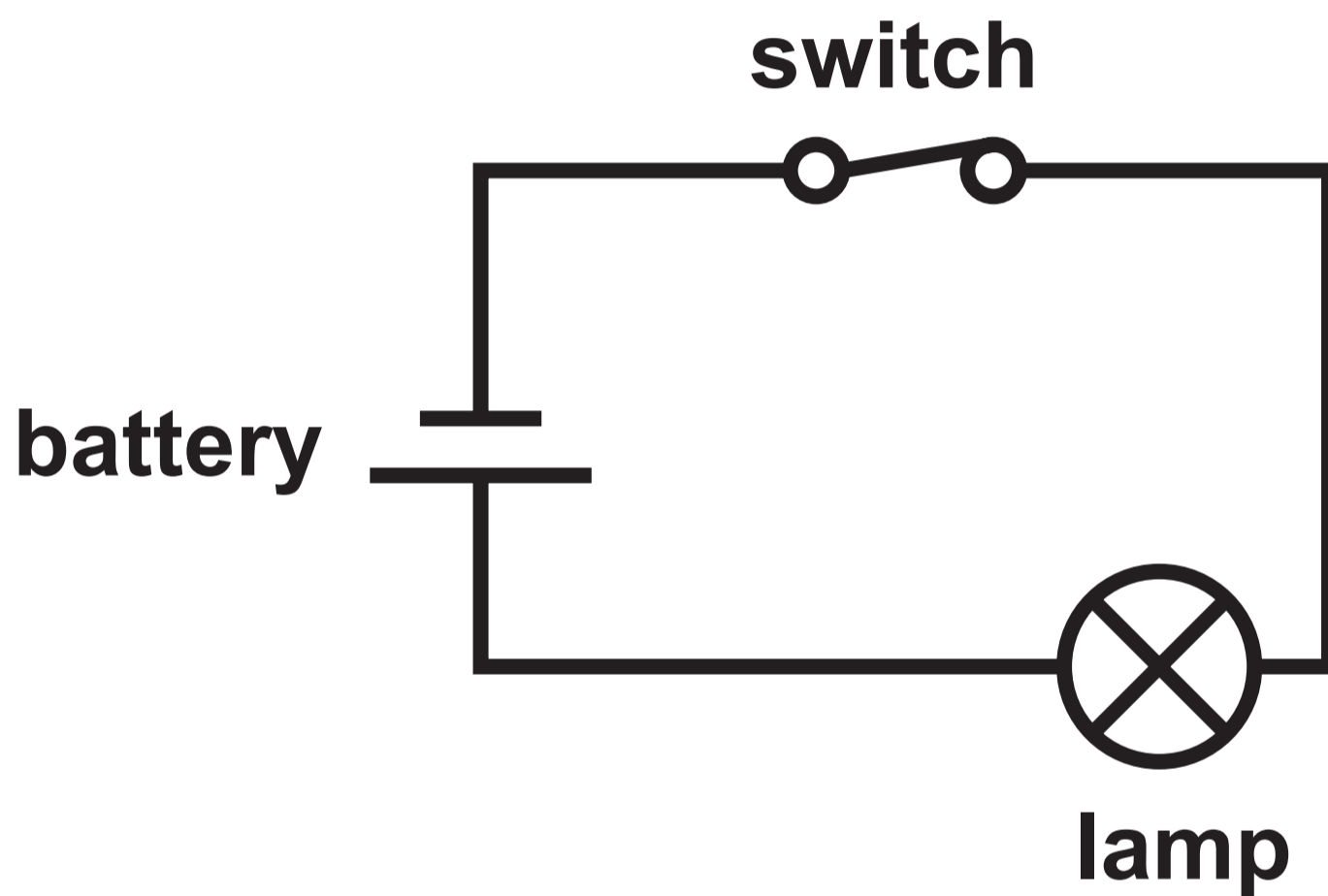


● **switch**

● **resistor**

Question 1(b)

FIGURE 1



Question 2(a)

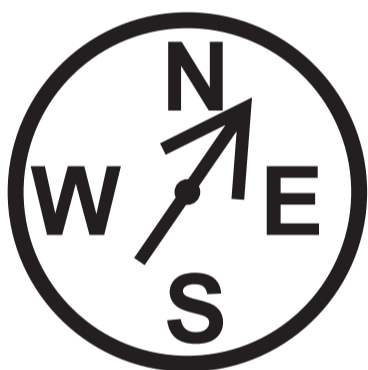
FIGURE 2



spring
balance

☐

A



plotting
compass

☐

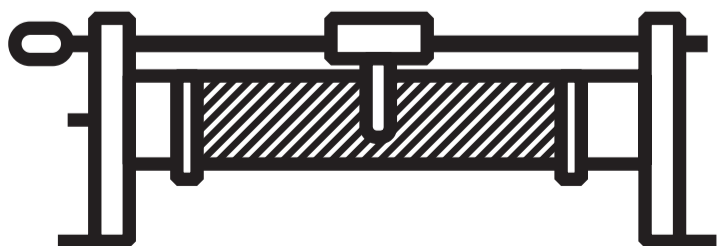
B



thermometer

☐

C



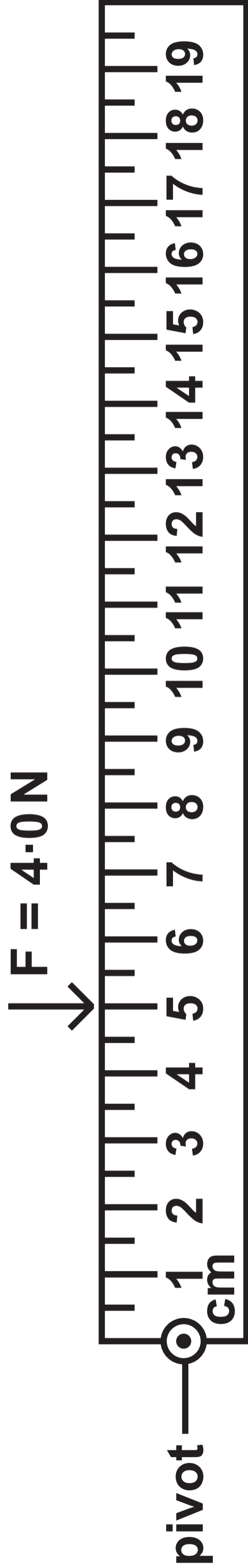
variable
resistor

☐

D

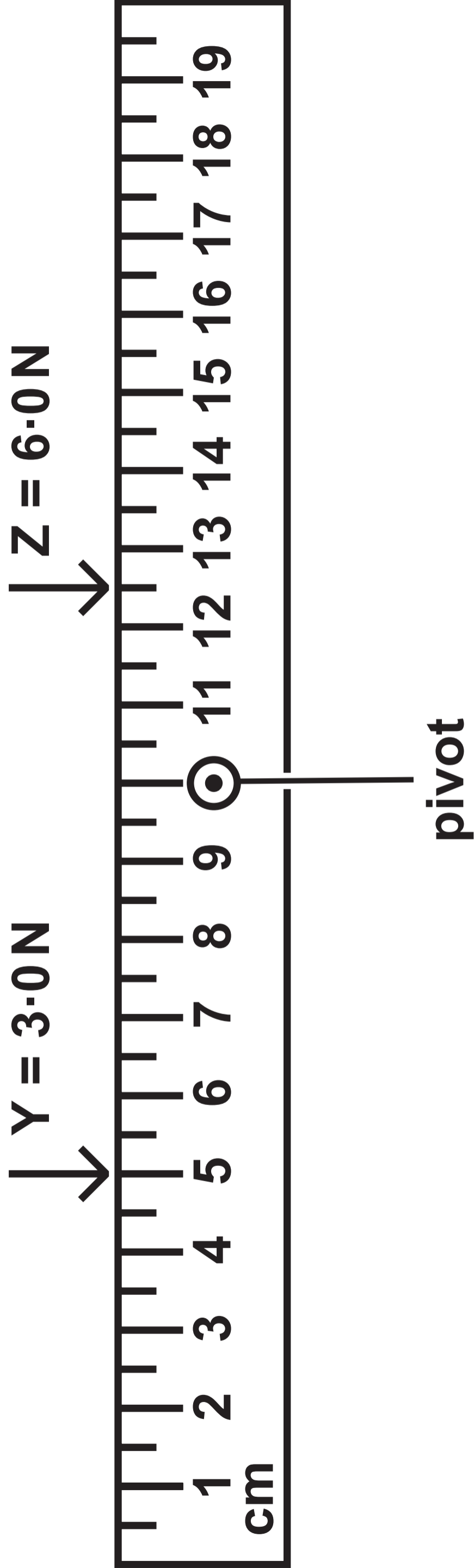
Question 2(b)

FIGURE 3



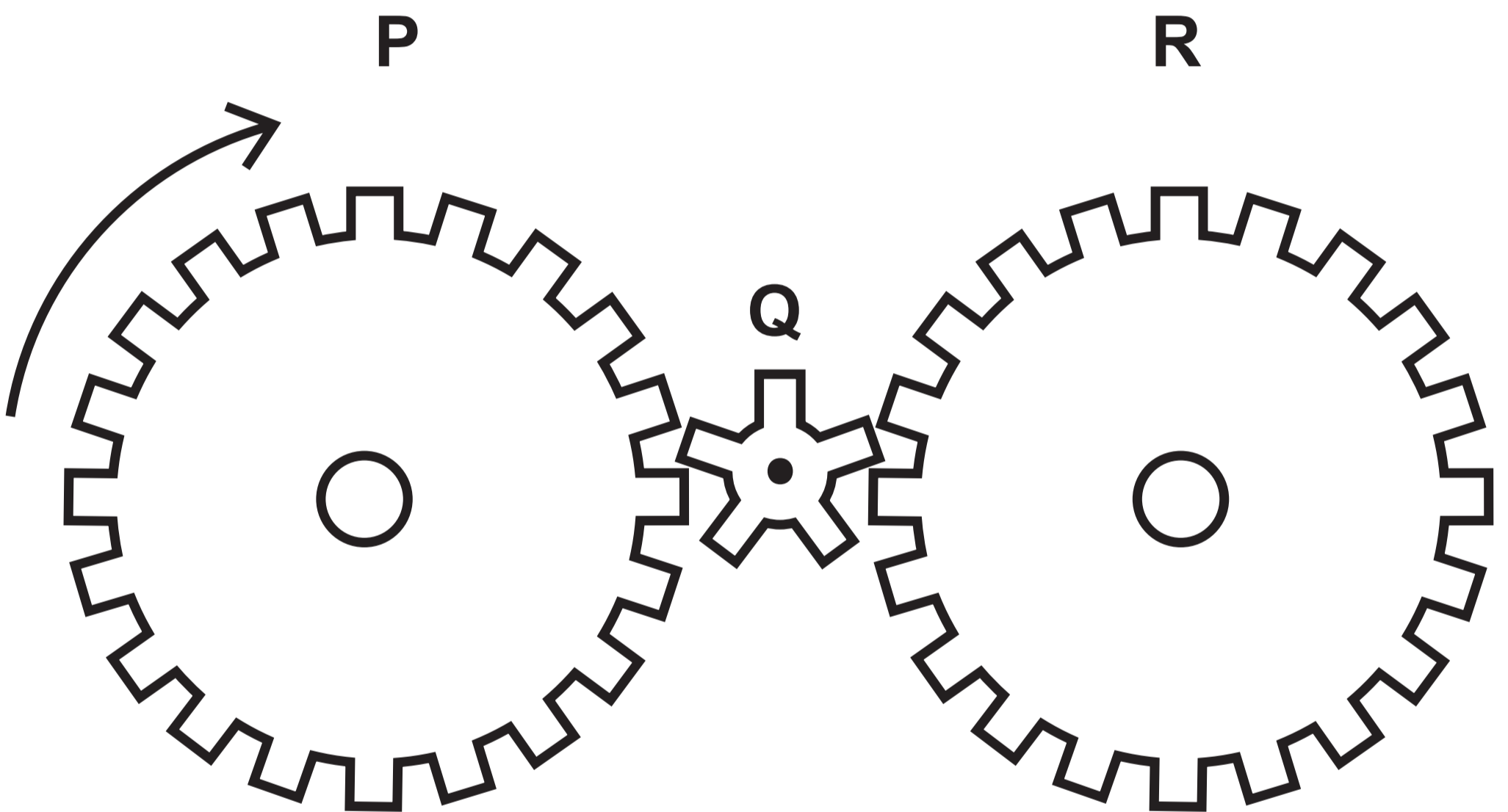
Question 2(c)

FIGURE 4



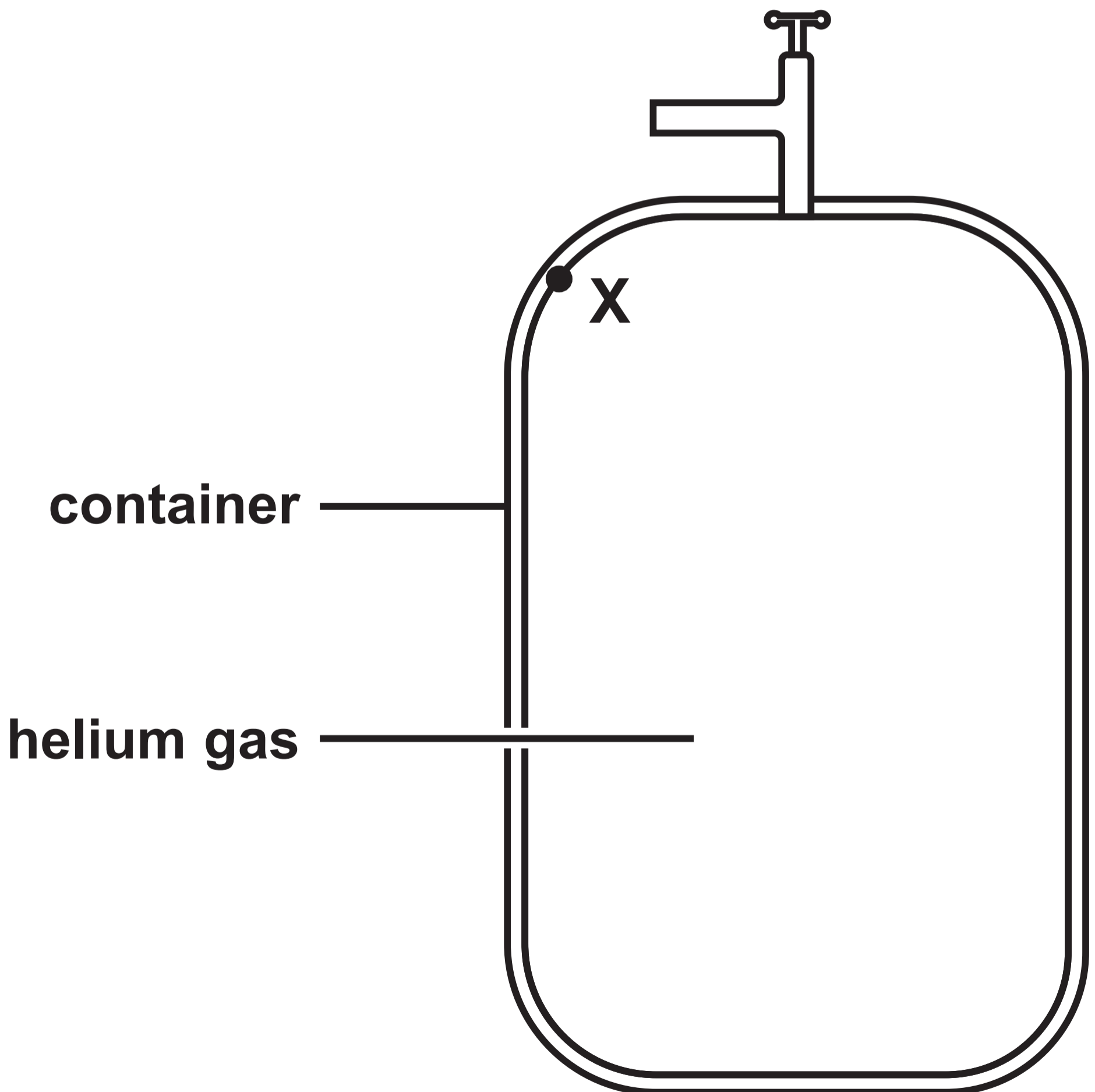
Question 2(d)

FIGURE 5



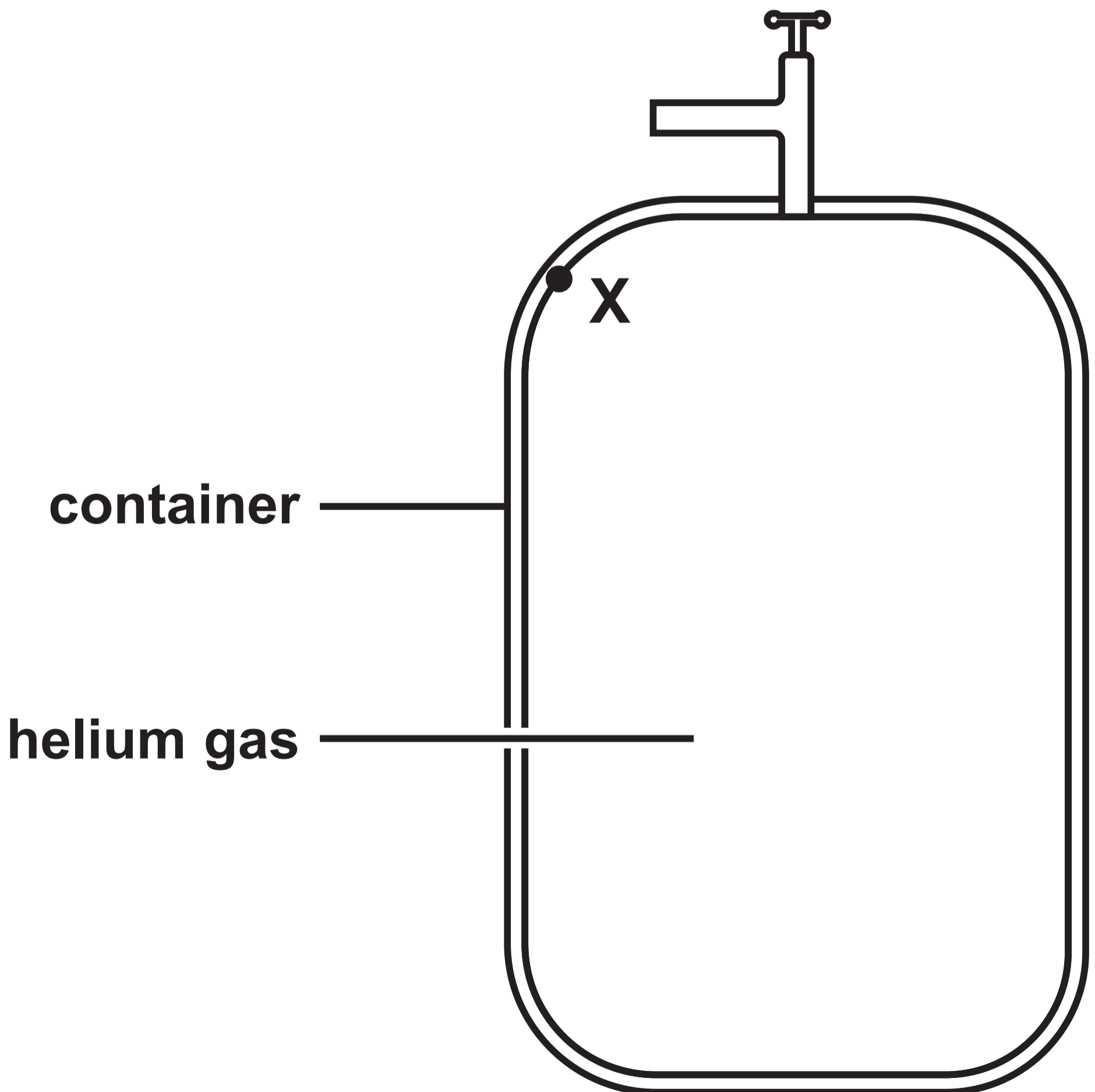
Question 3(a)

FIGURE 6



Question 3(a)

FIGURE 6



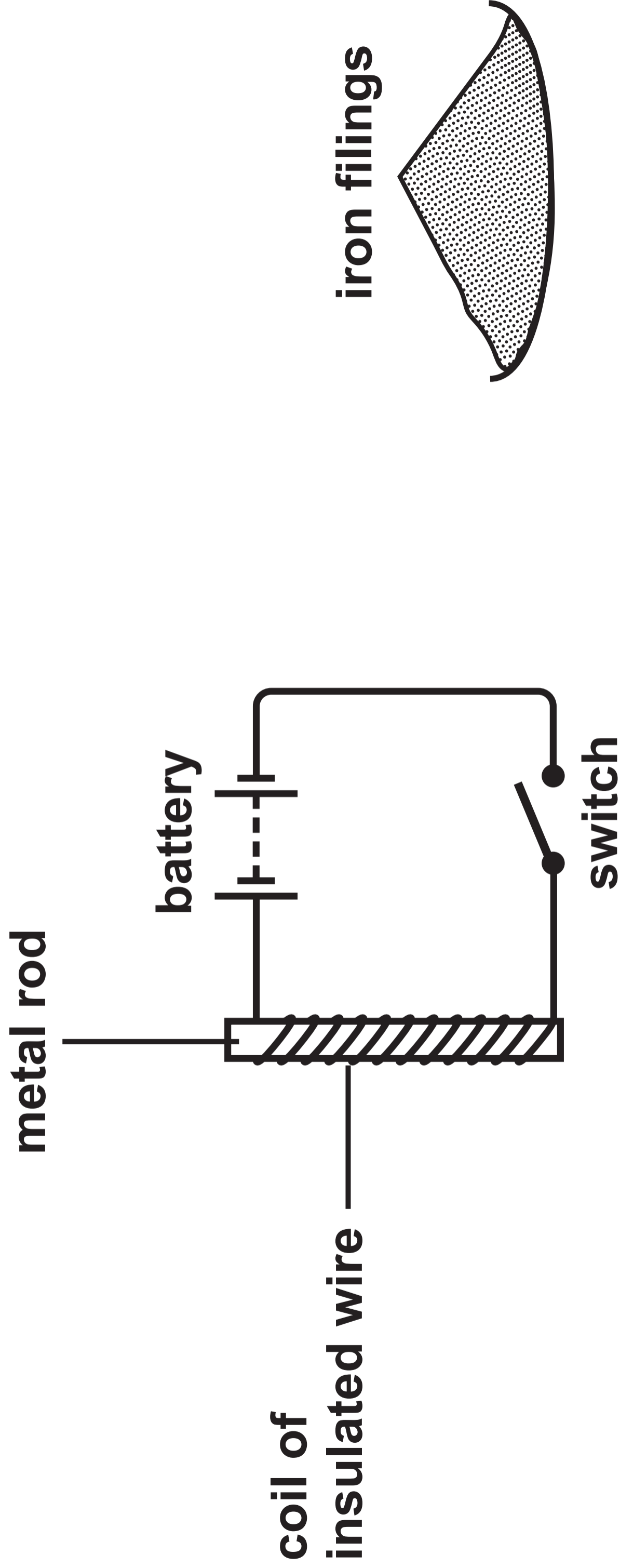
Question 3(c)

FIGURE 7

	pressure in kPa	volume in m ³
before the gas is compressed	$P_1 = 105$	$V_1 = 2.3$
after the gas is compressed	$P_2 =$	$V_2 = 0.20$

Question 4(a)

FIGURE 9

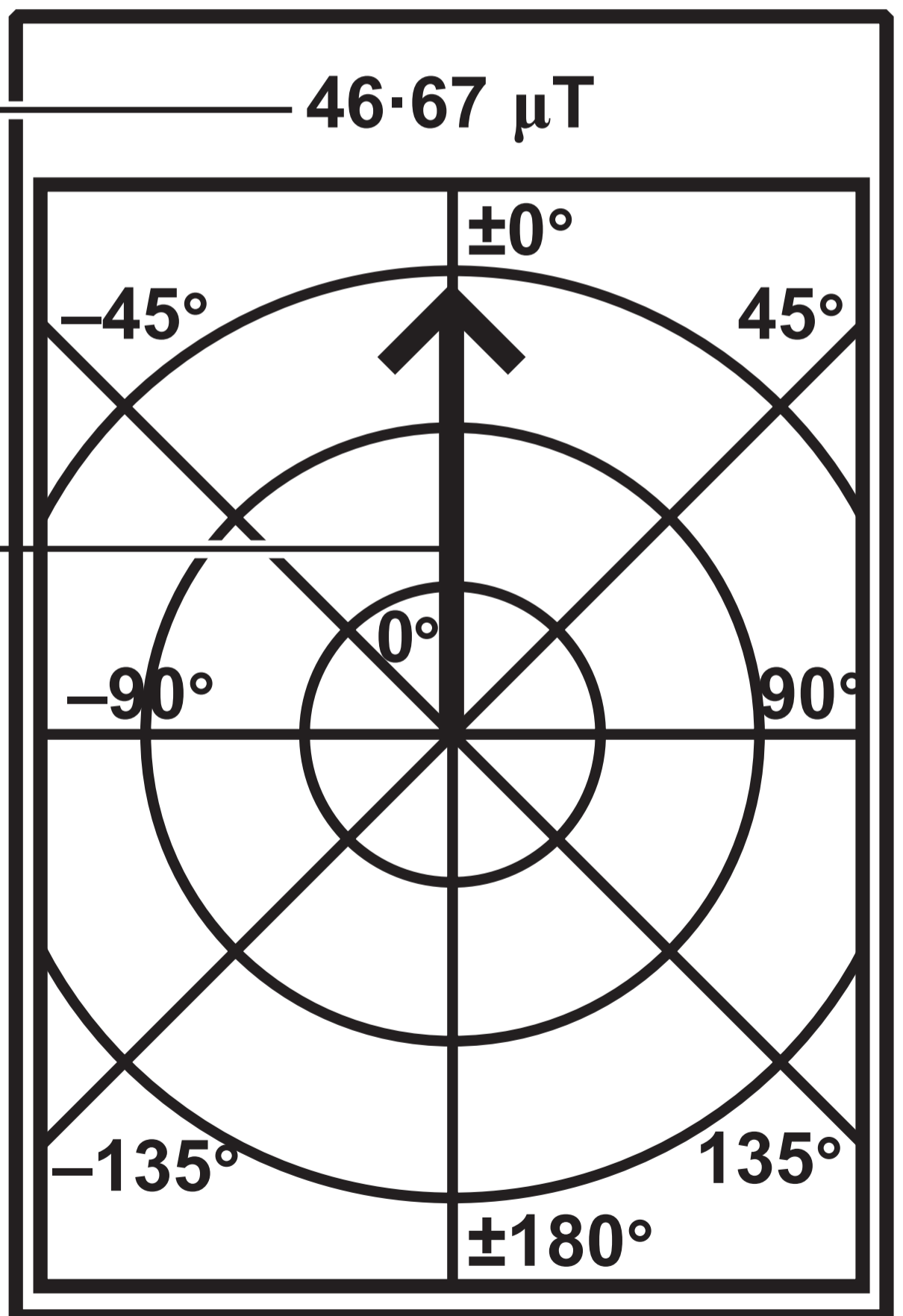


Question 4(b)(i)

FIGURE 10

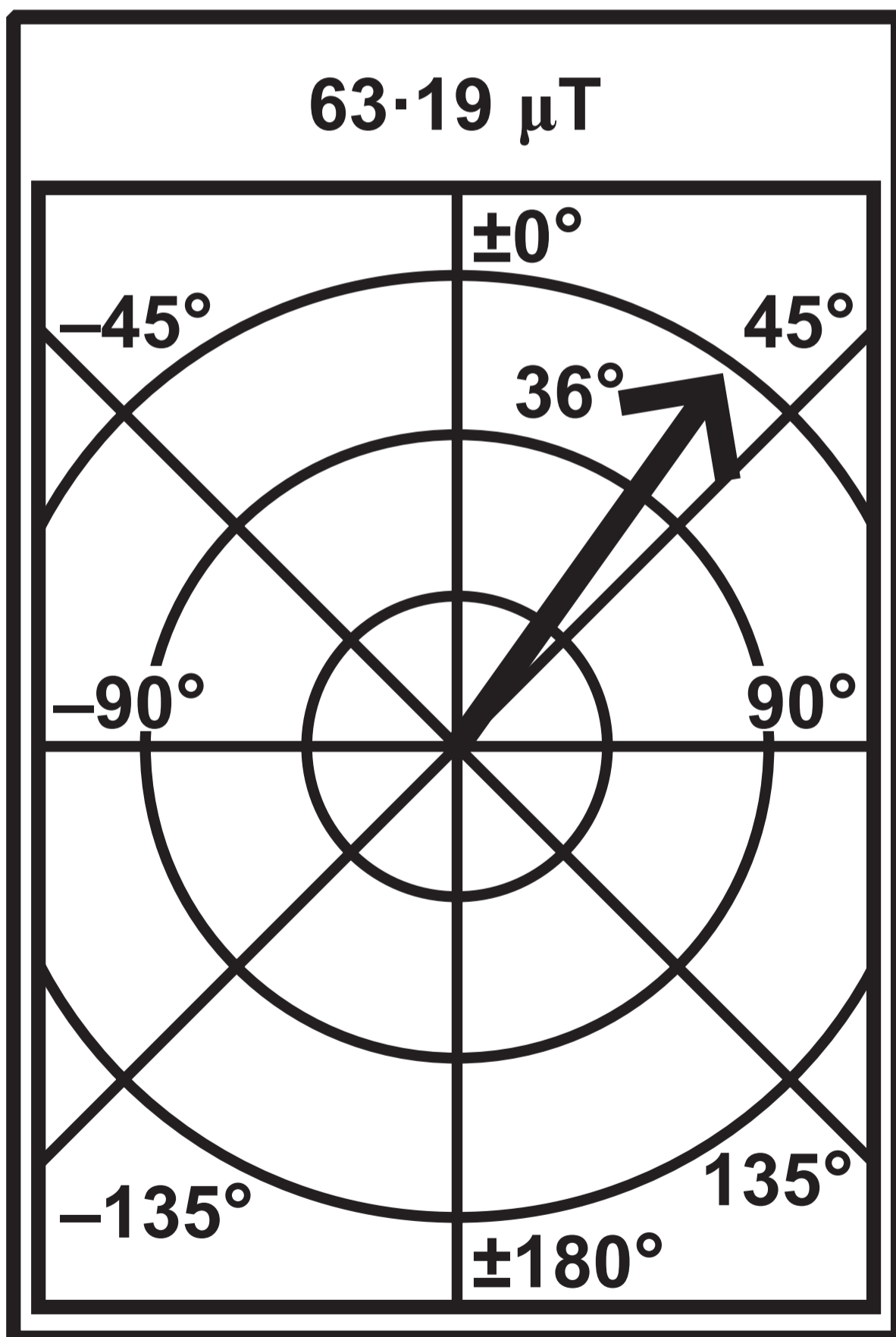
numbers show
the strength
of the
magnetic field

pointer shows
the direction
of the
magnetic field



Question 4(b)(ii)

FIGURE 11

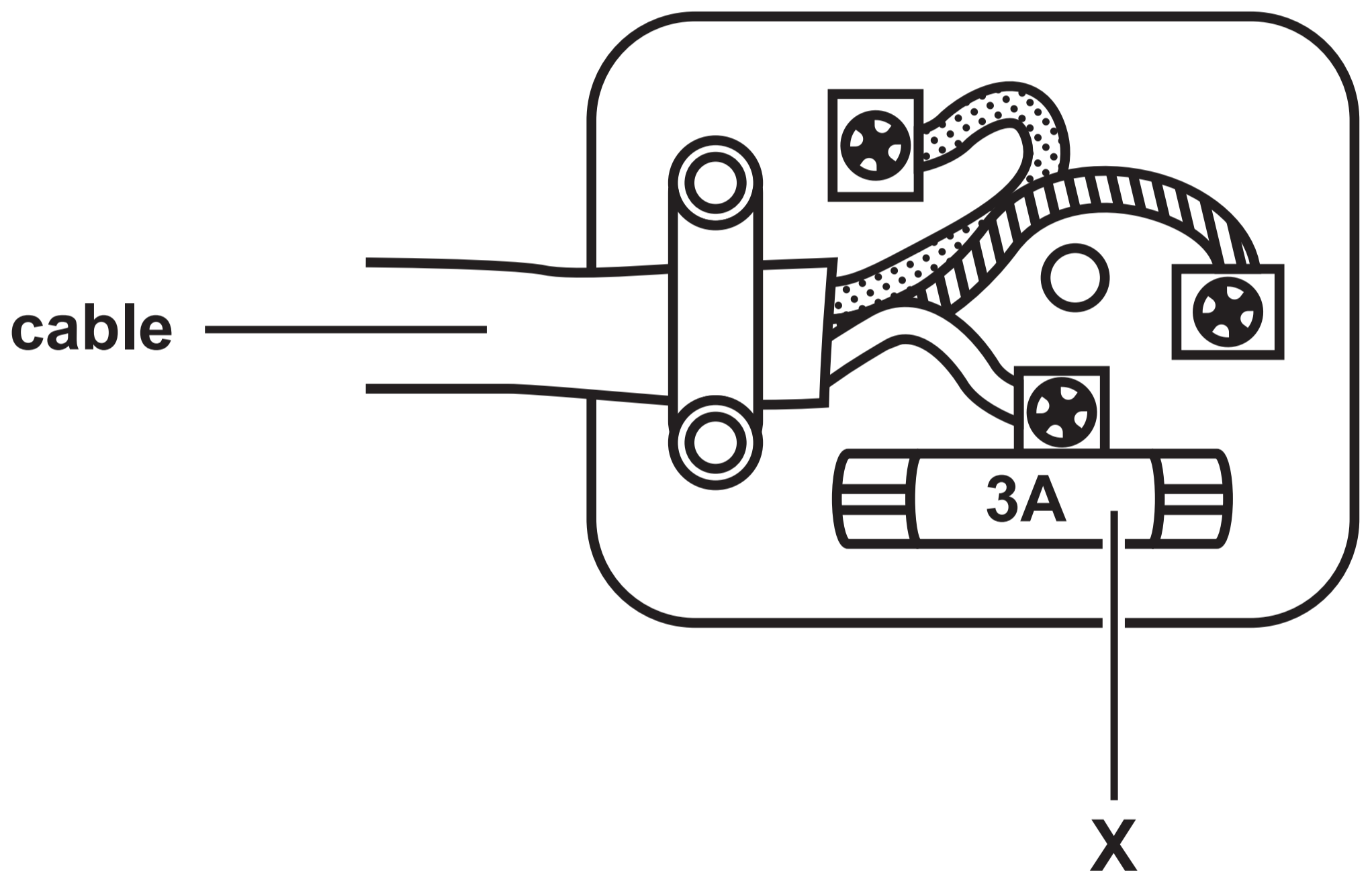


magnet



Question 5(a)

FIGURE 12

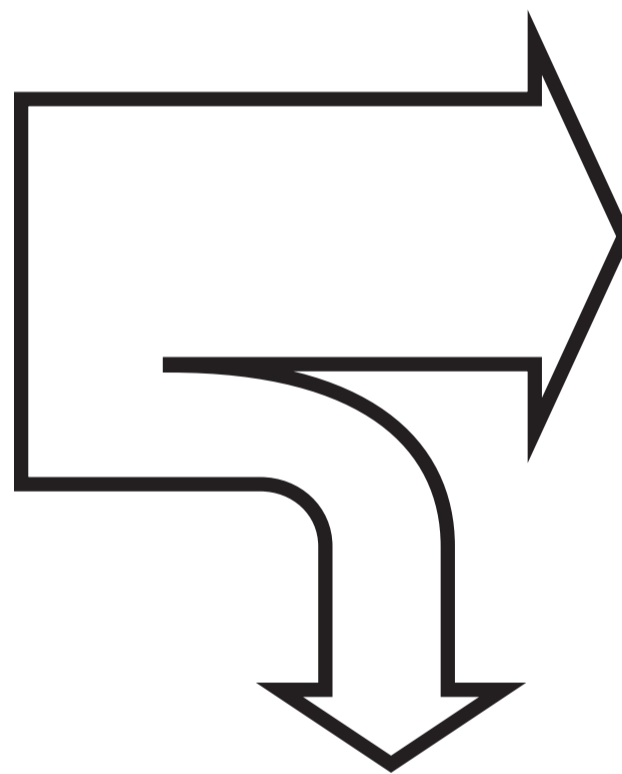


Question 5(c)

FIGURE 13

not to scale

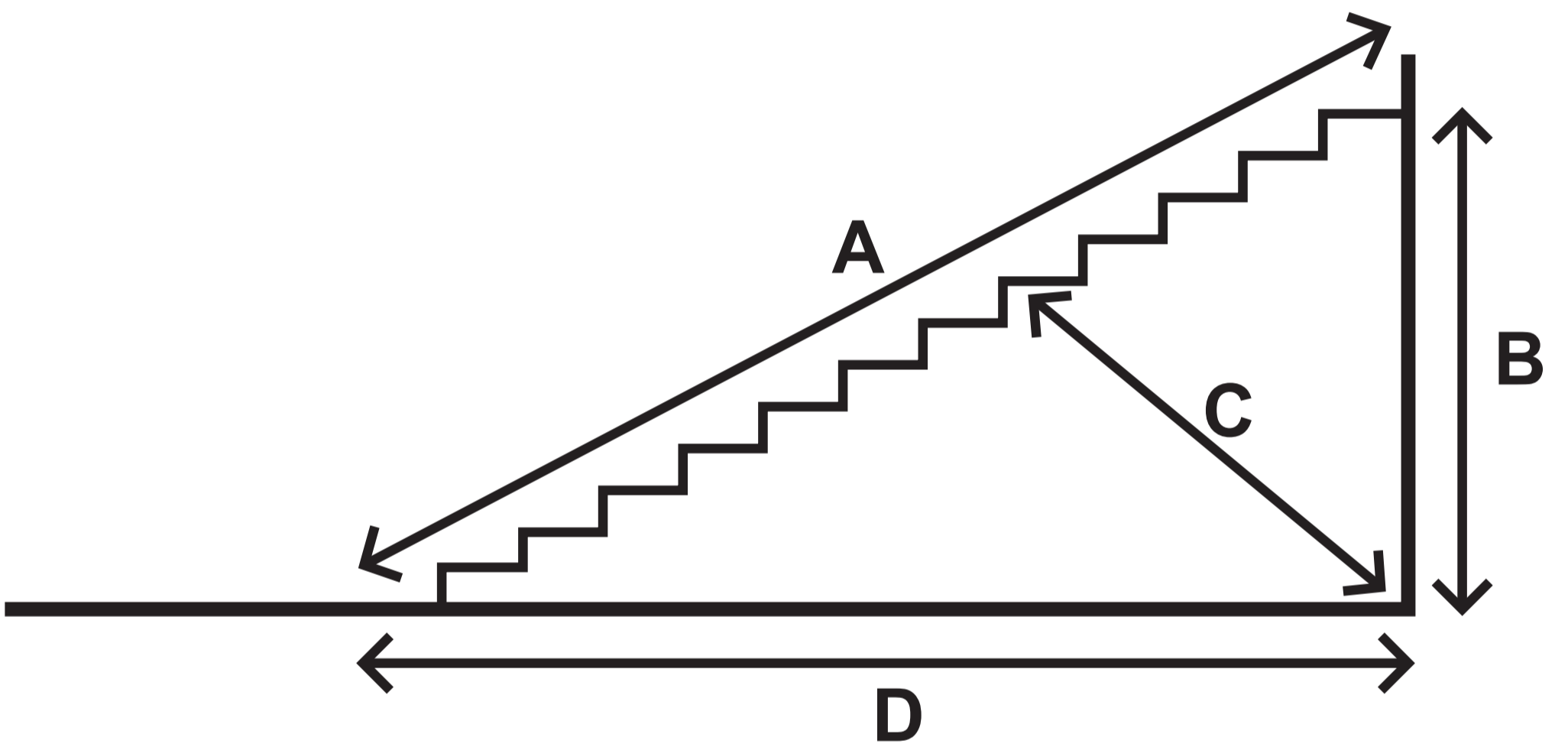
total energy
supplied to
the pump
9000 J



useful energy
transferred
by the pump
8400 J

Question 6(a)

FIGURE 14

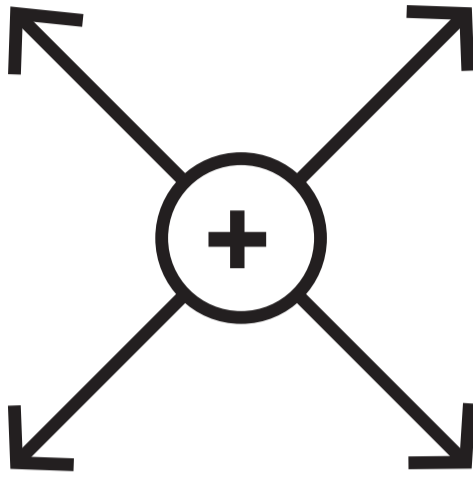
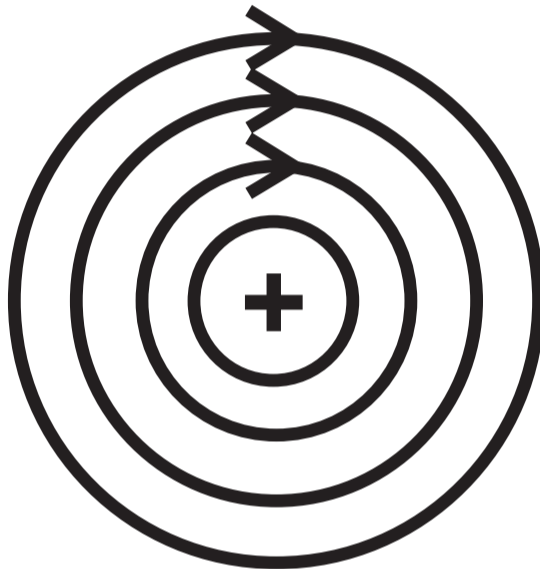
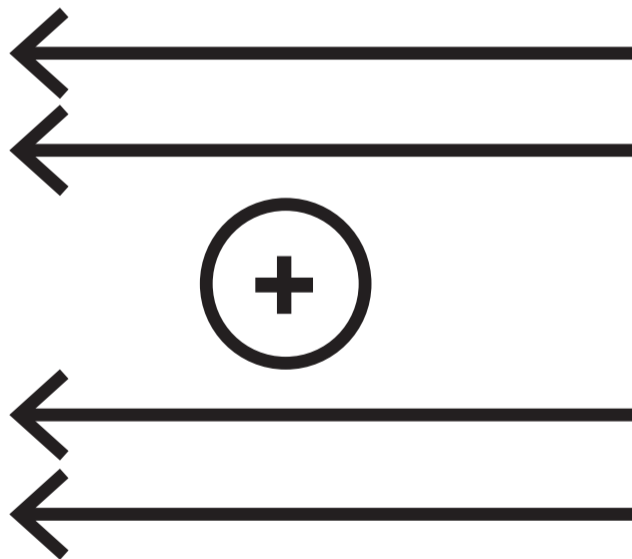
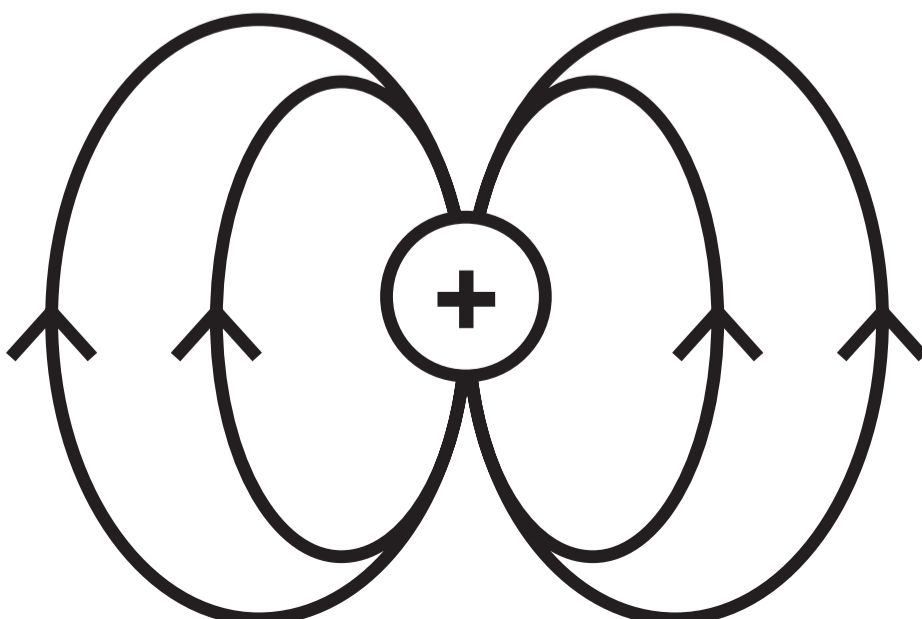


Question 6(b)

FIGURE 15

student	student estimate of weight in N	distance in m	work done	time taken in s	power in W
A	550	4·0	2200	5·0	440
B		4·0	1960	4·5	436
C	510	4·0	2040		425

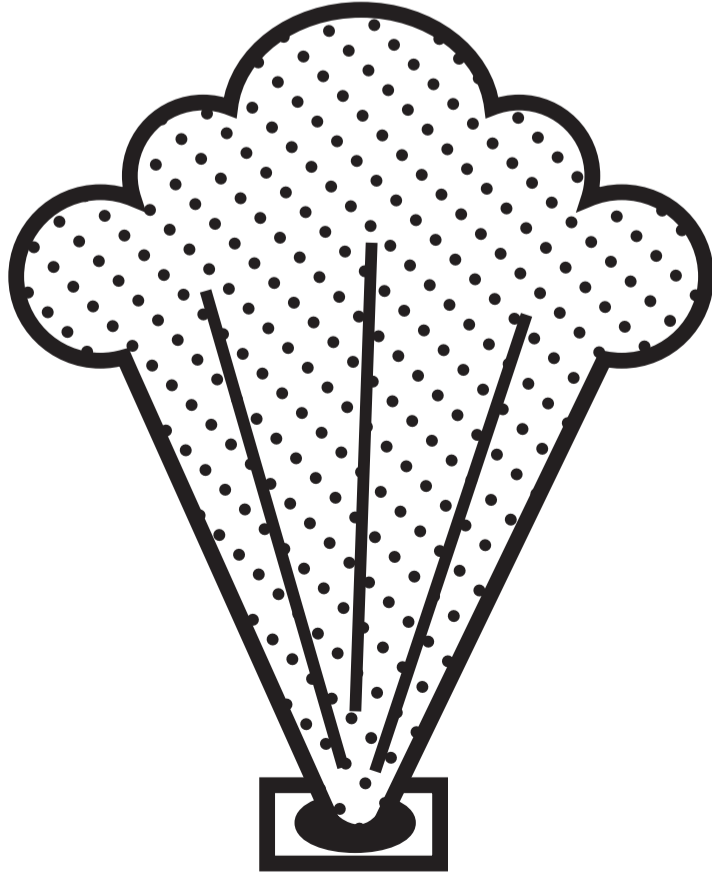
Question 7(a)

☐ A☐ B☐ C☐ D

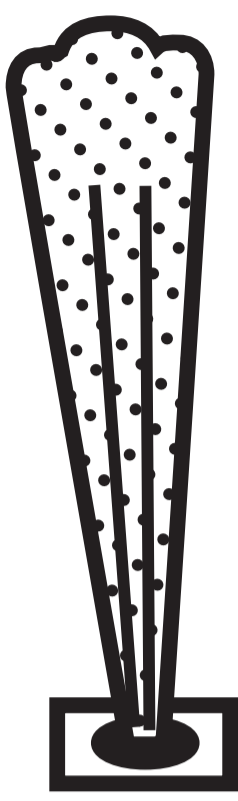
Question 7(c)(ii)

FIGURE 16

cloud from
sprayer 1

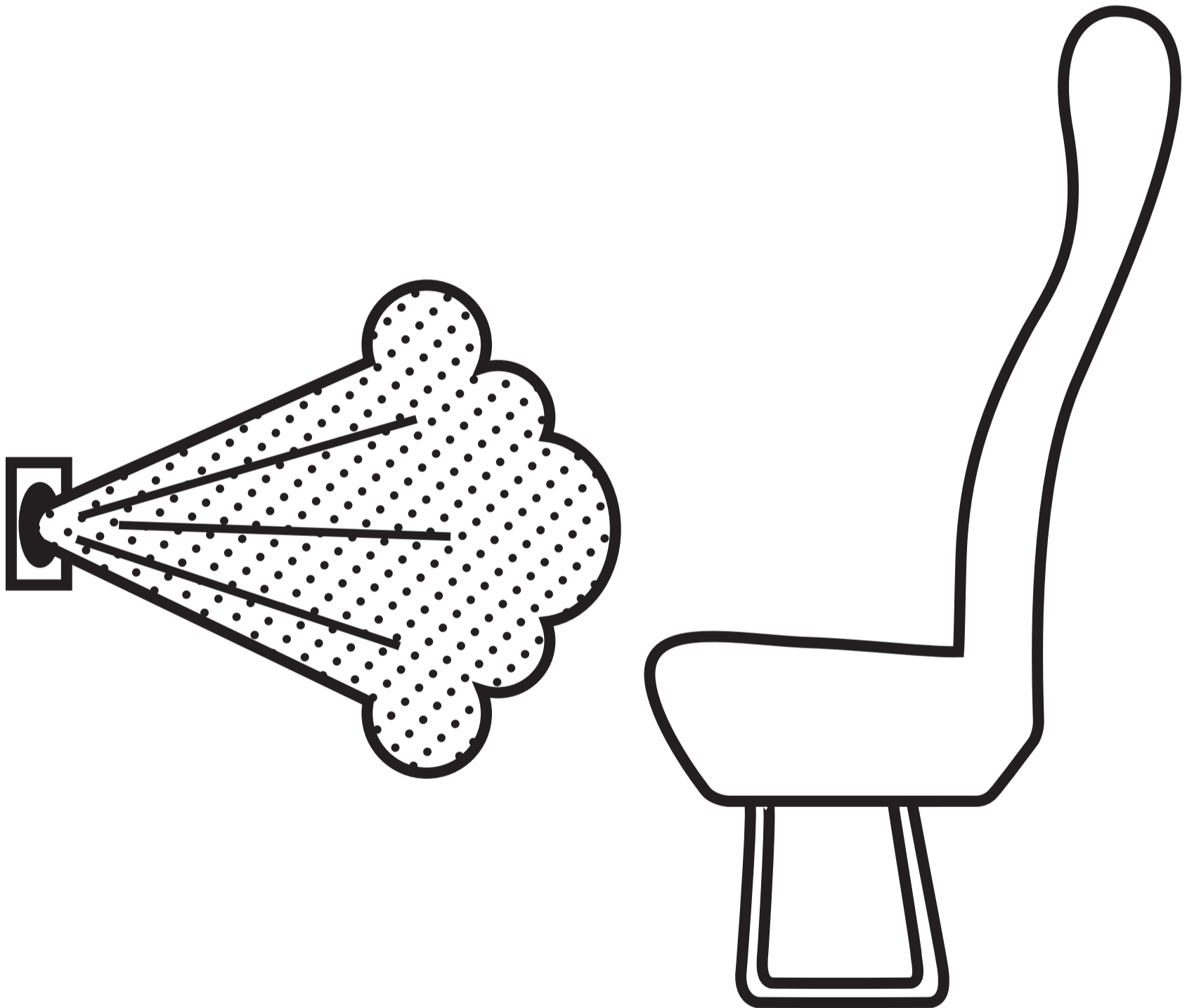


cloud from
sprayer 2



Question 7(c)(iii)

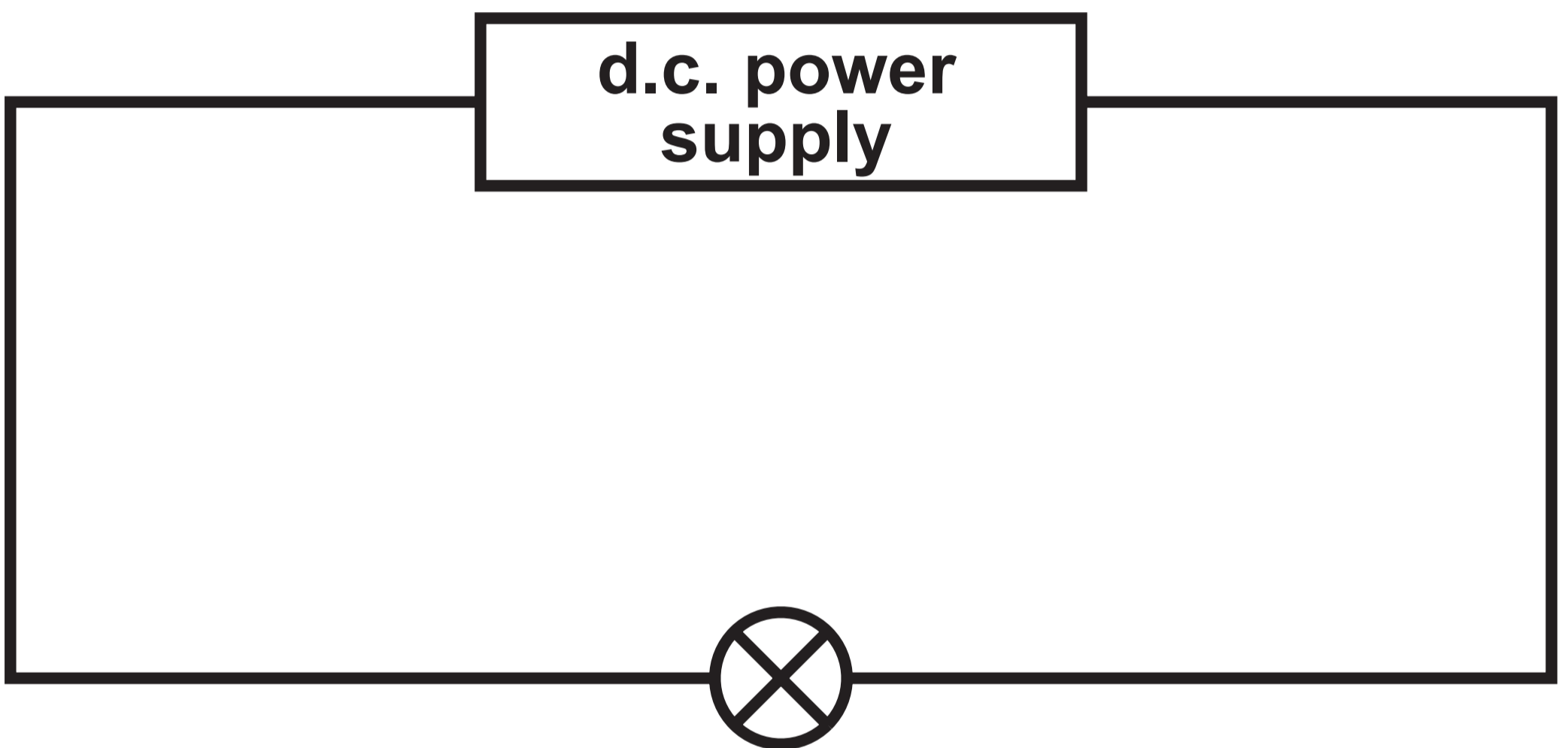
FIGURE 17



25

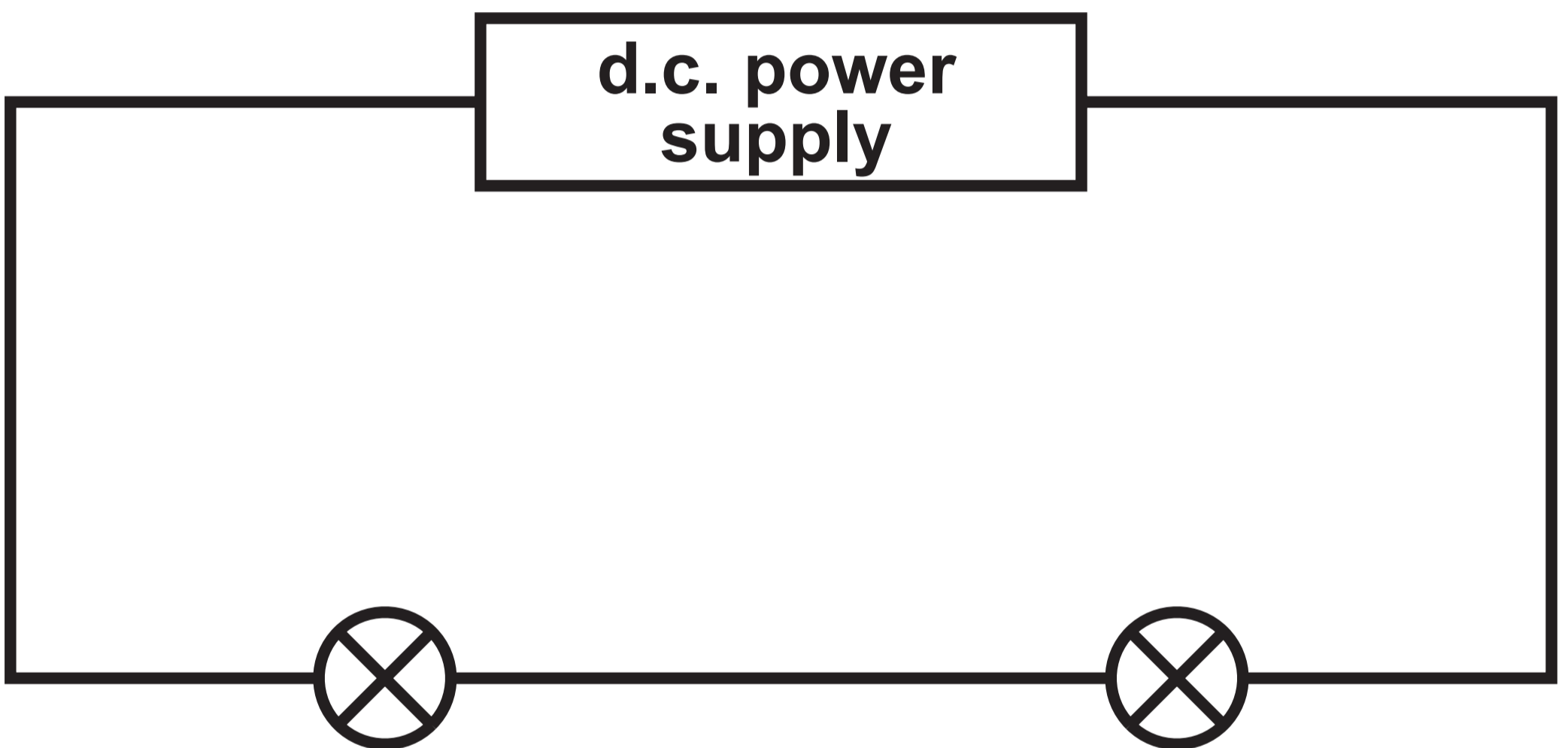
Question 8(a)

FIGURE 19



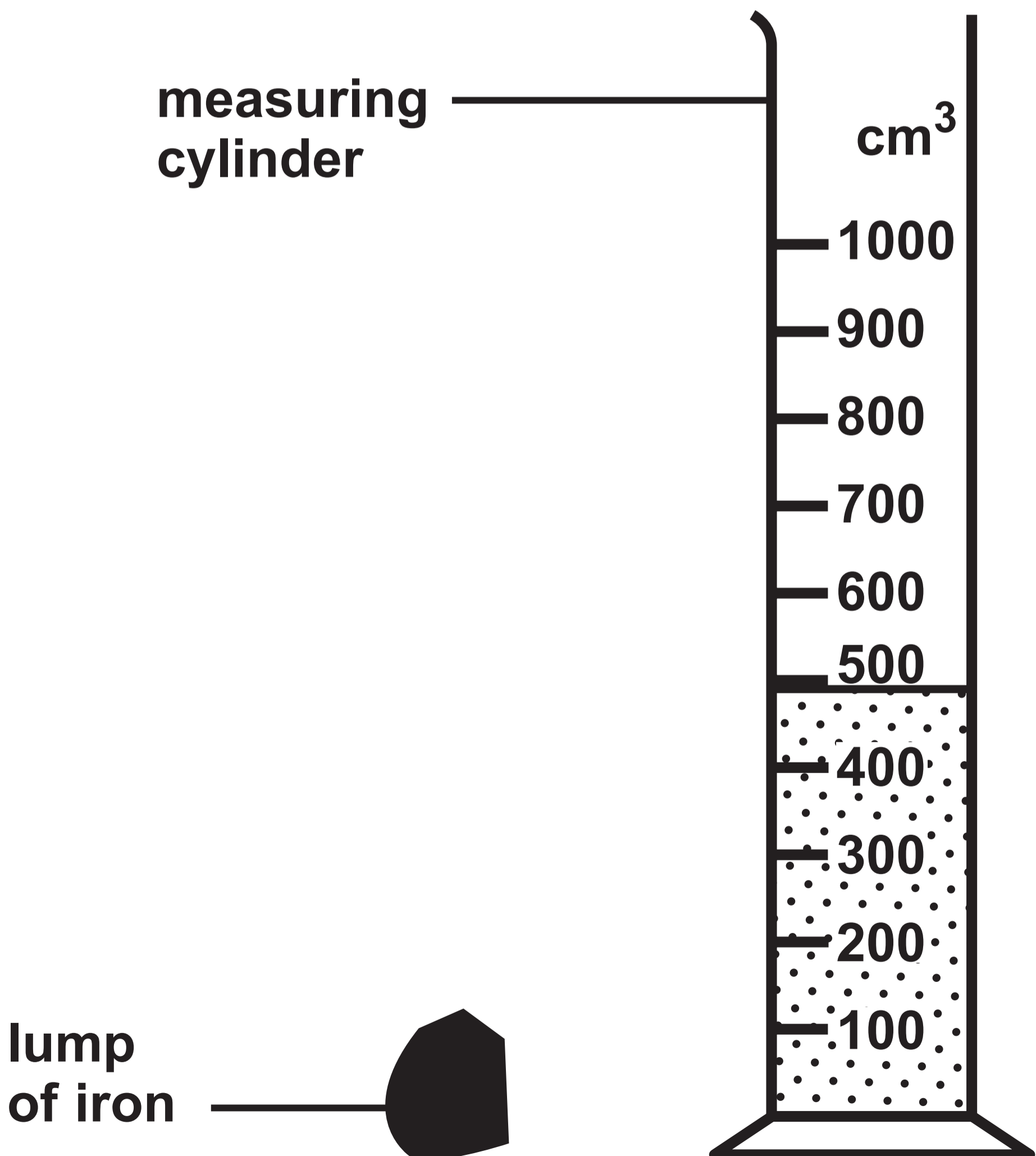
Question 8(b)

FIGURE 20



Question 9(b)

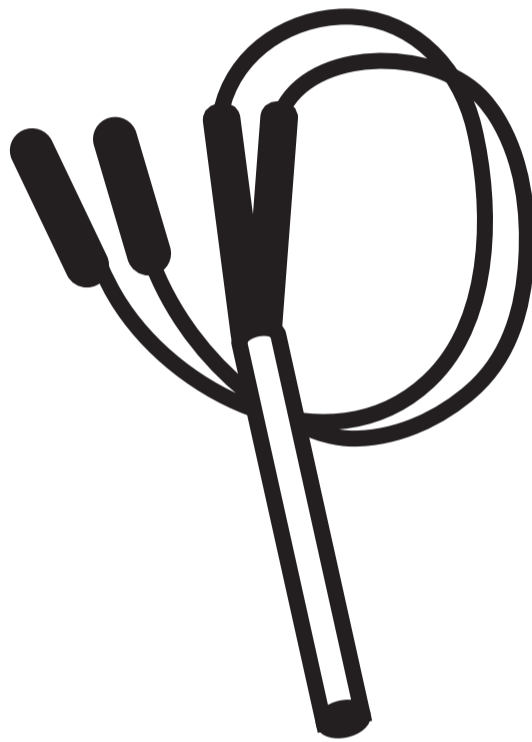
FIGURE 21



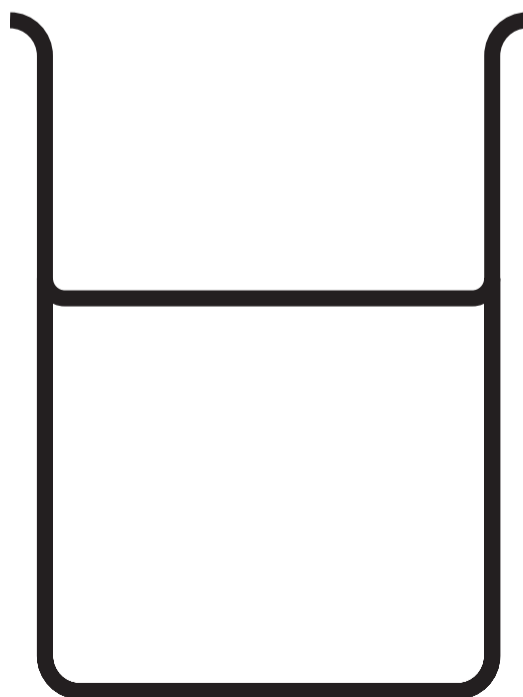
Question 9(d)

FIGURE 22

low voltage heater



beaker of water



Question 10(a)(ii)

FIGURE 24

Both diagrams are drawn to the same scale.

donkey hoof

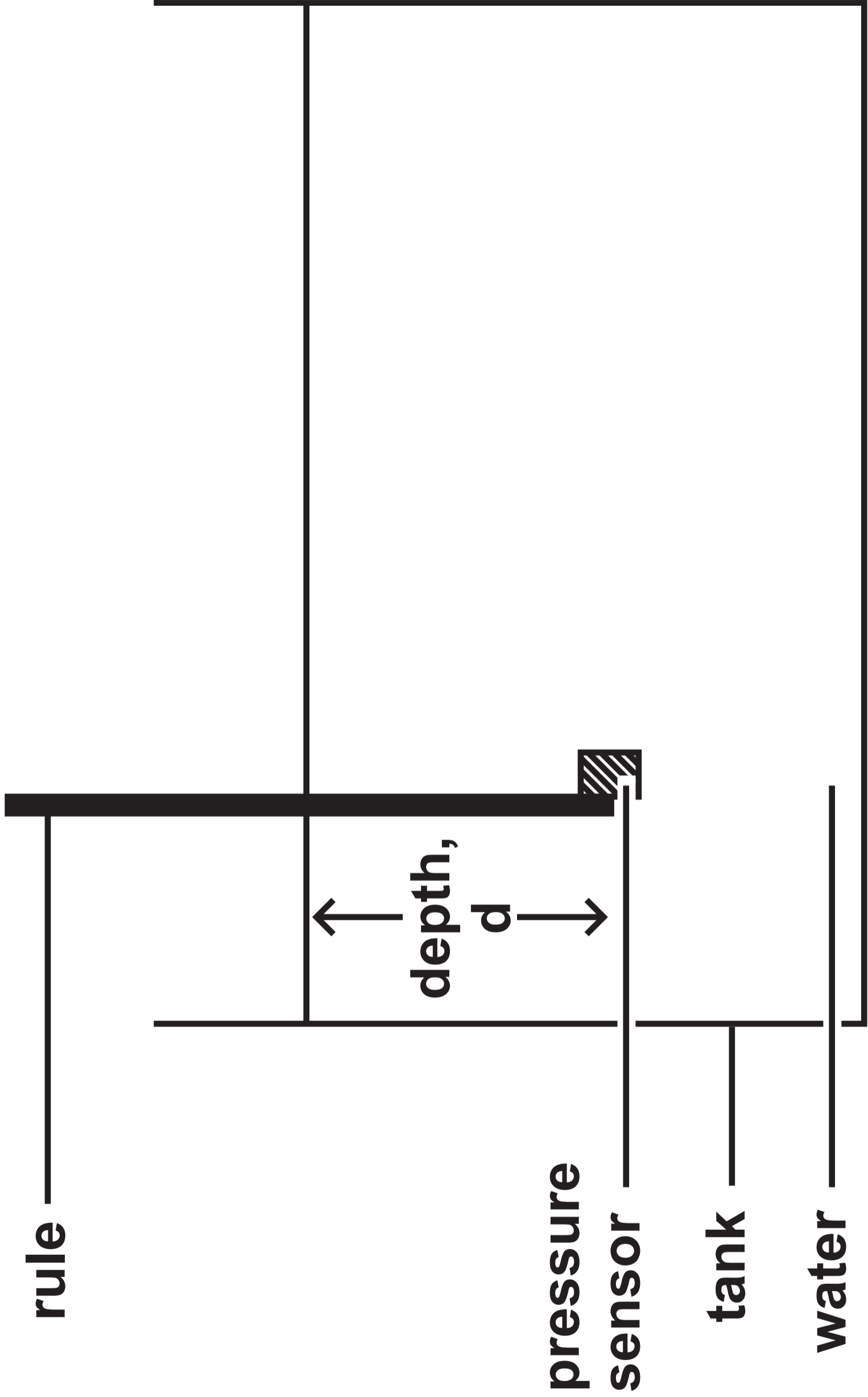


camel hoof



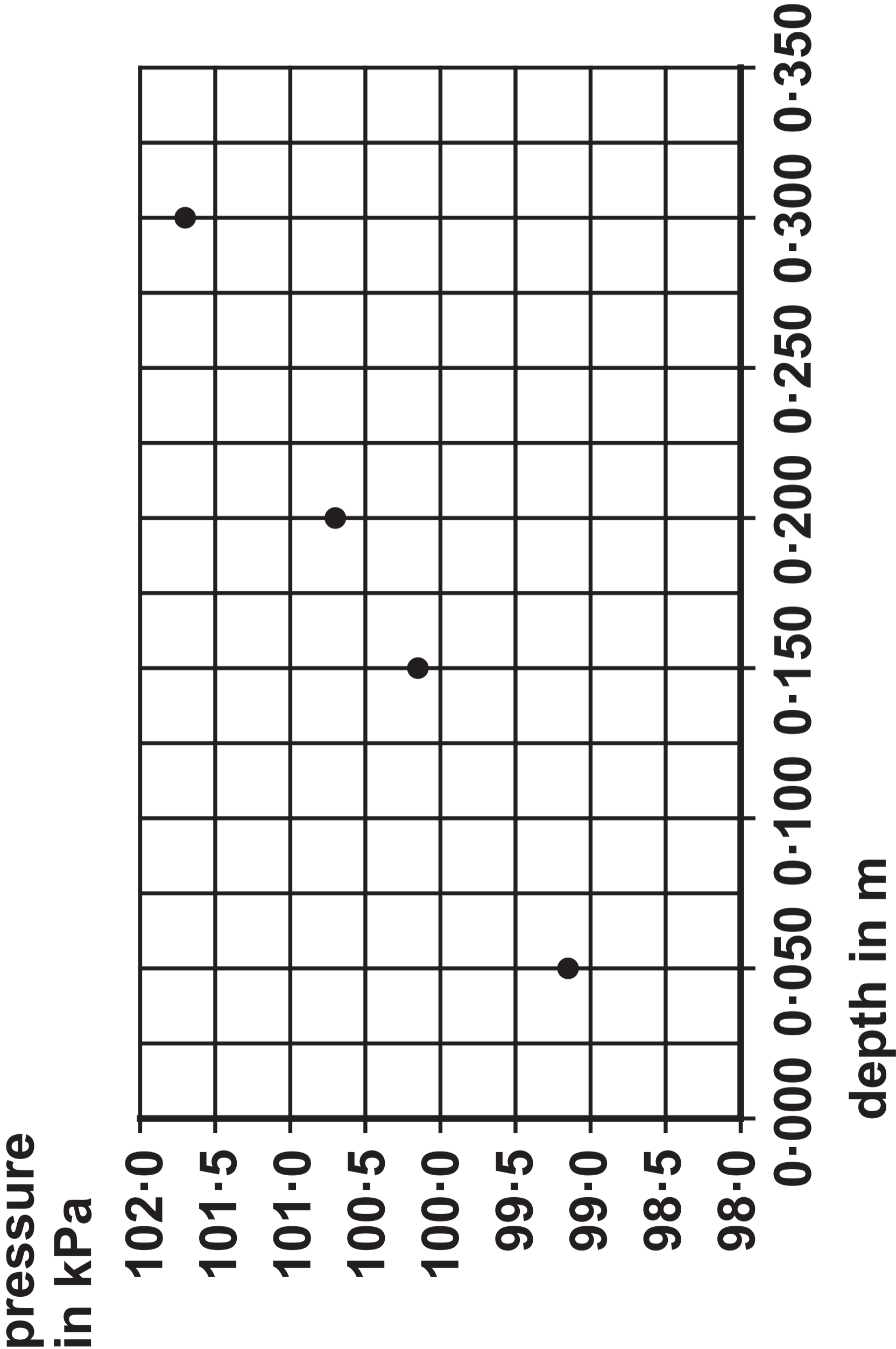
Question 10(b)

FIGURE 25



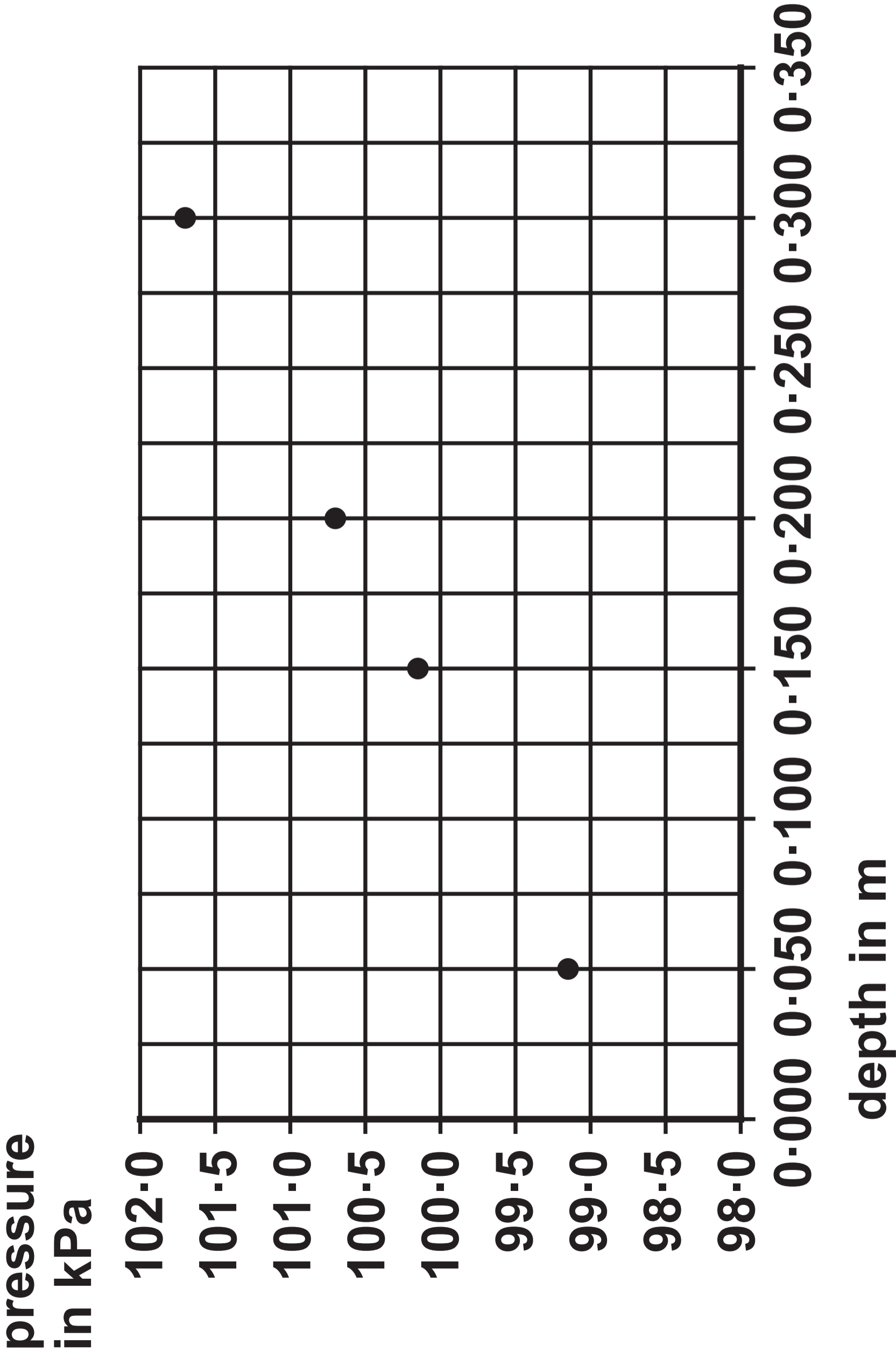
Question 10(b)

FIGURE 27



Question 10(b)

FIGURE 27



Question 4(b)(i)

(Source: adapted from MGS Lite app for iPhone)

Question 4(b)(ii)

(Source: adapted from MGS Lite app for iPhone)