

Paper Reference(s) 4PH1/1PR 4SD0/1PR
Pearson Edexcel International GCSE (9–1)

Physics

UNIT: 4PH1

Science (Double Award) 4SD0

PAPER: 1PR

Wednesday 22 May 2024 – Morning

Time: 2 hours

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

There may be spare copies of some diagrams in case you need them.

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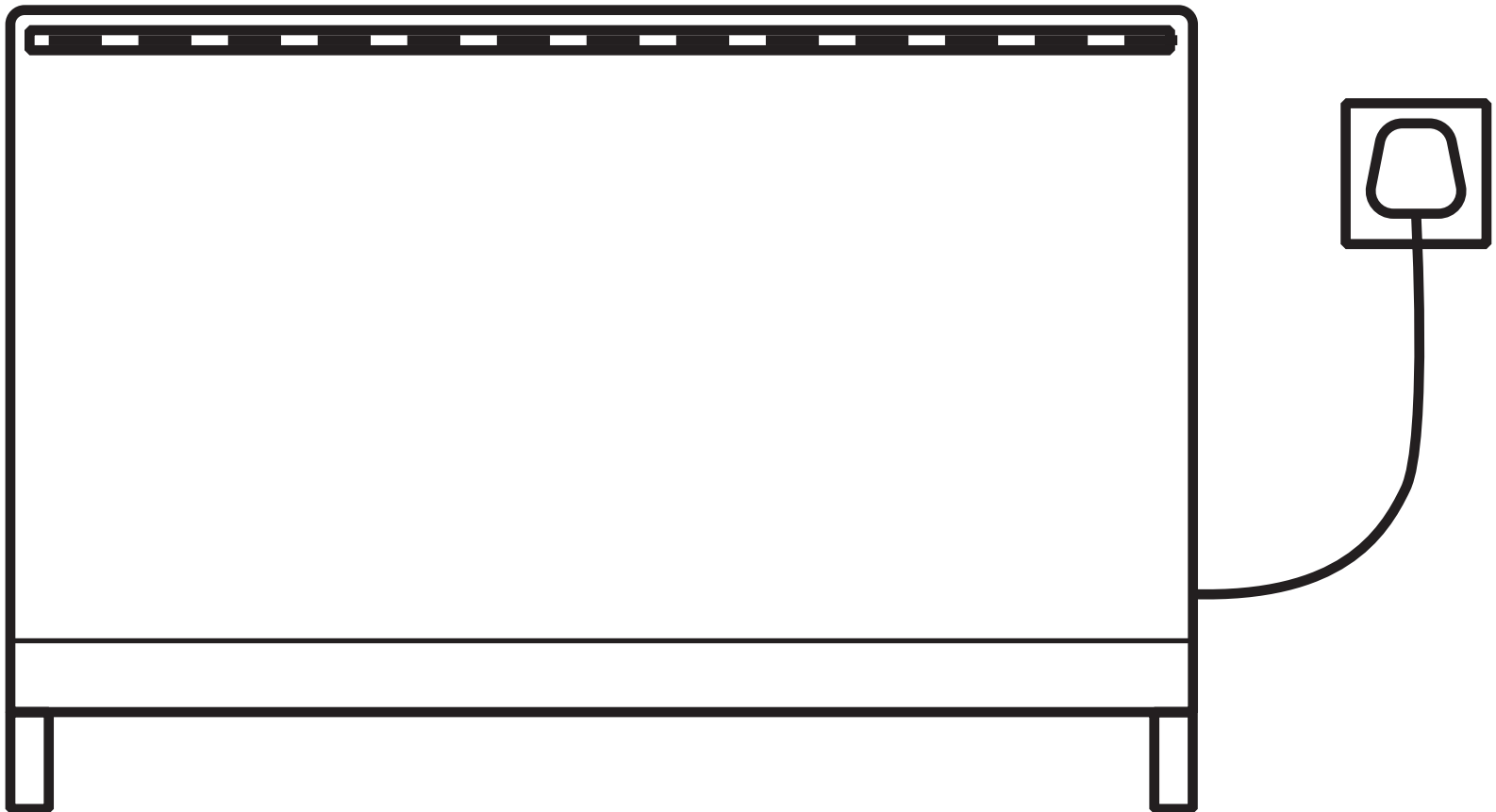
28 Question 11(a)

Question 1(a)

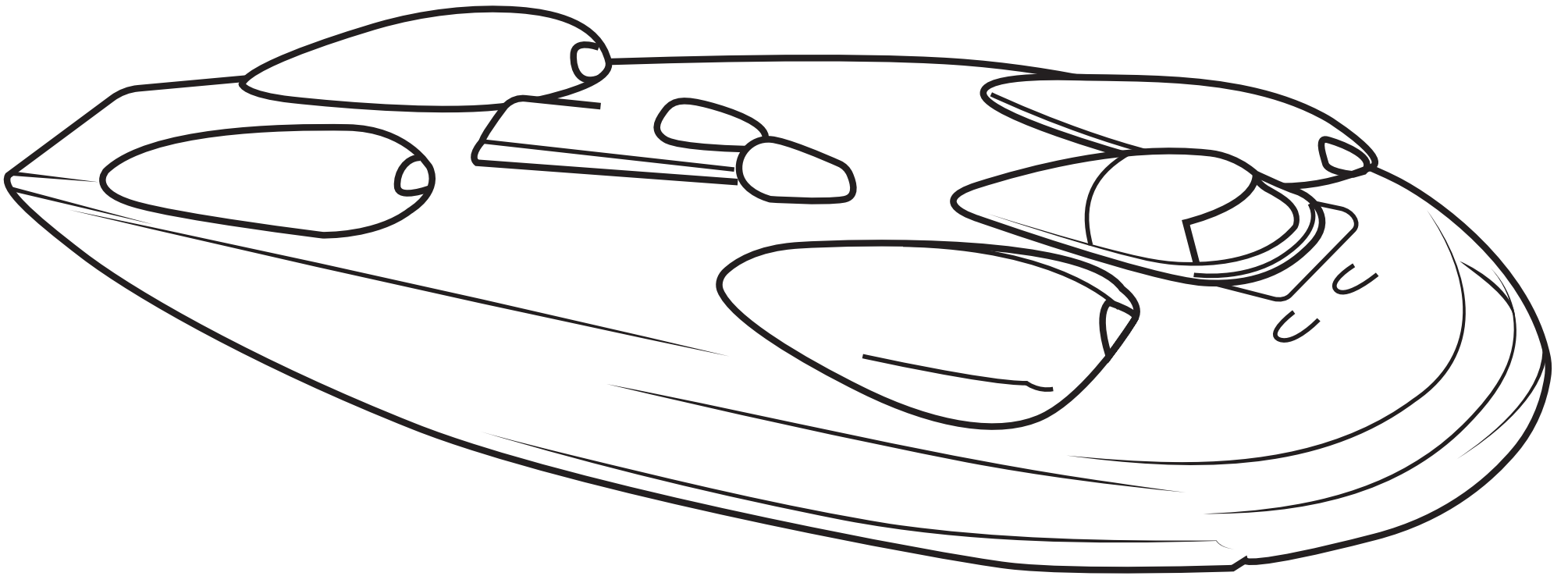
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radio waves	microwaves	A	visible light	B	x-rays	gamma rays
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Question 2

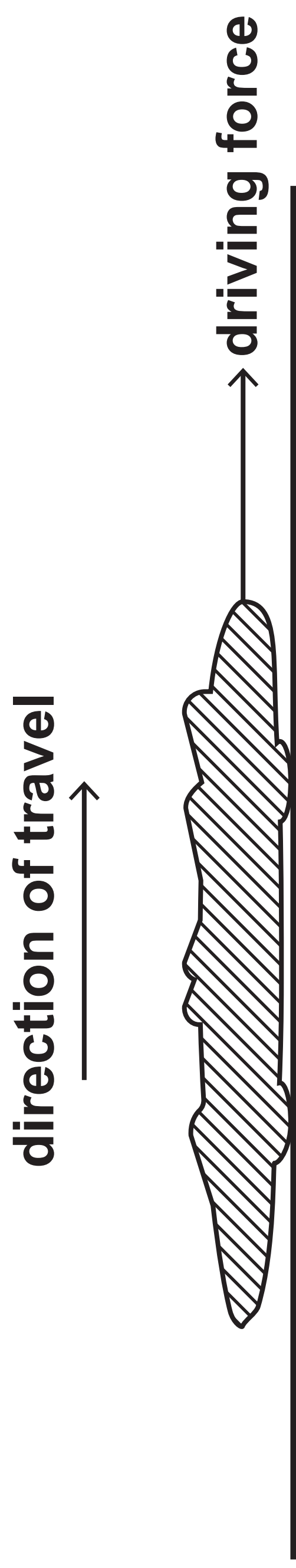


Question 3



Question 3(b)

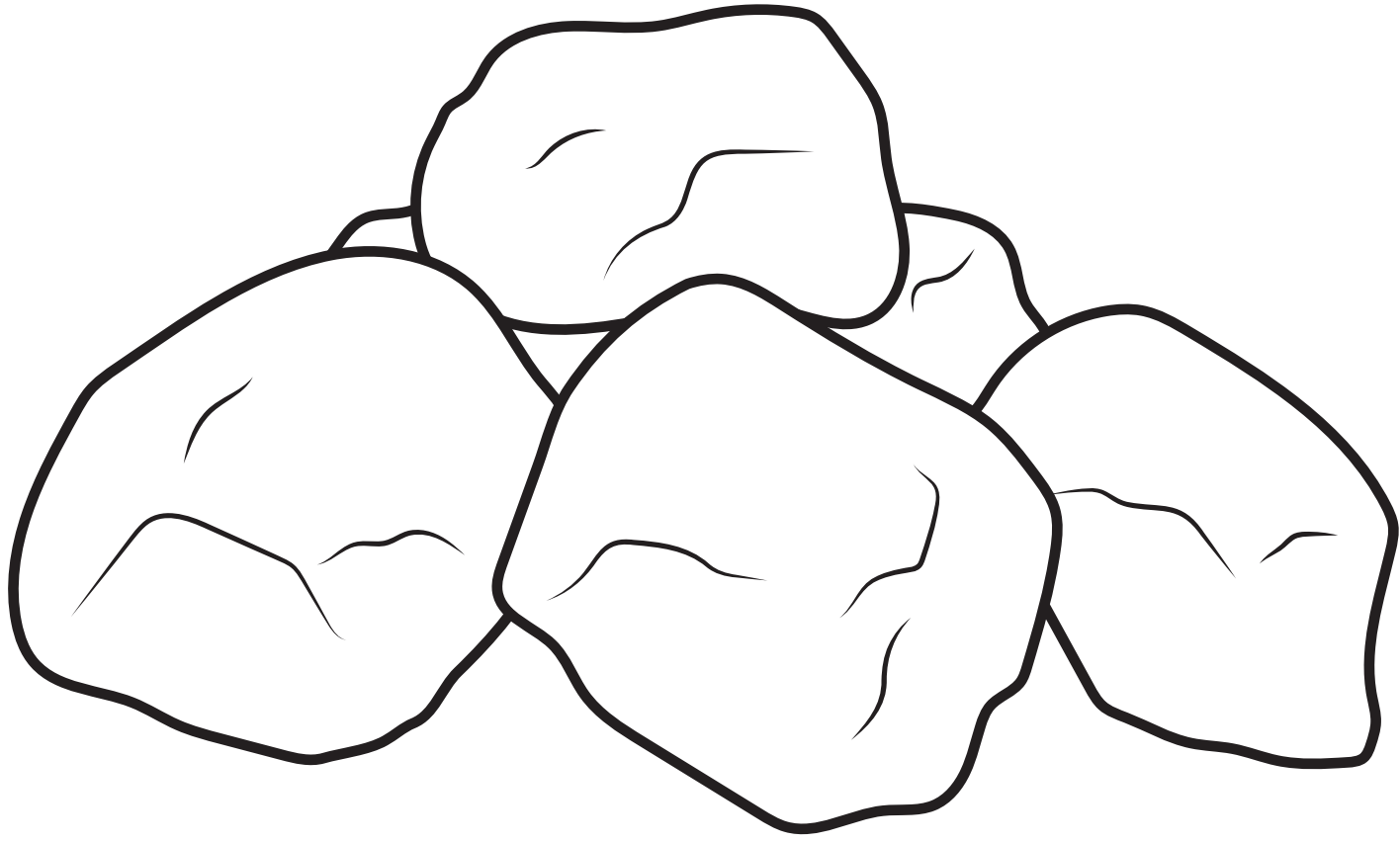
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Question 4(a)

Stage of evolution	Occurs in the life cycle of the Sun
black hole	
main sequence	
nebula	
neutron star	
red giant	
red supergiant	
supernova	
white dwarf	

Question 5

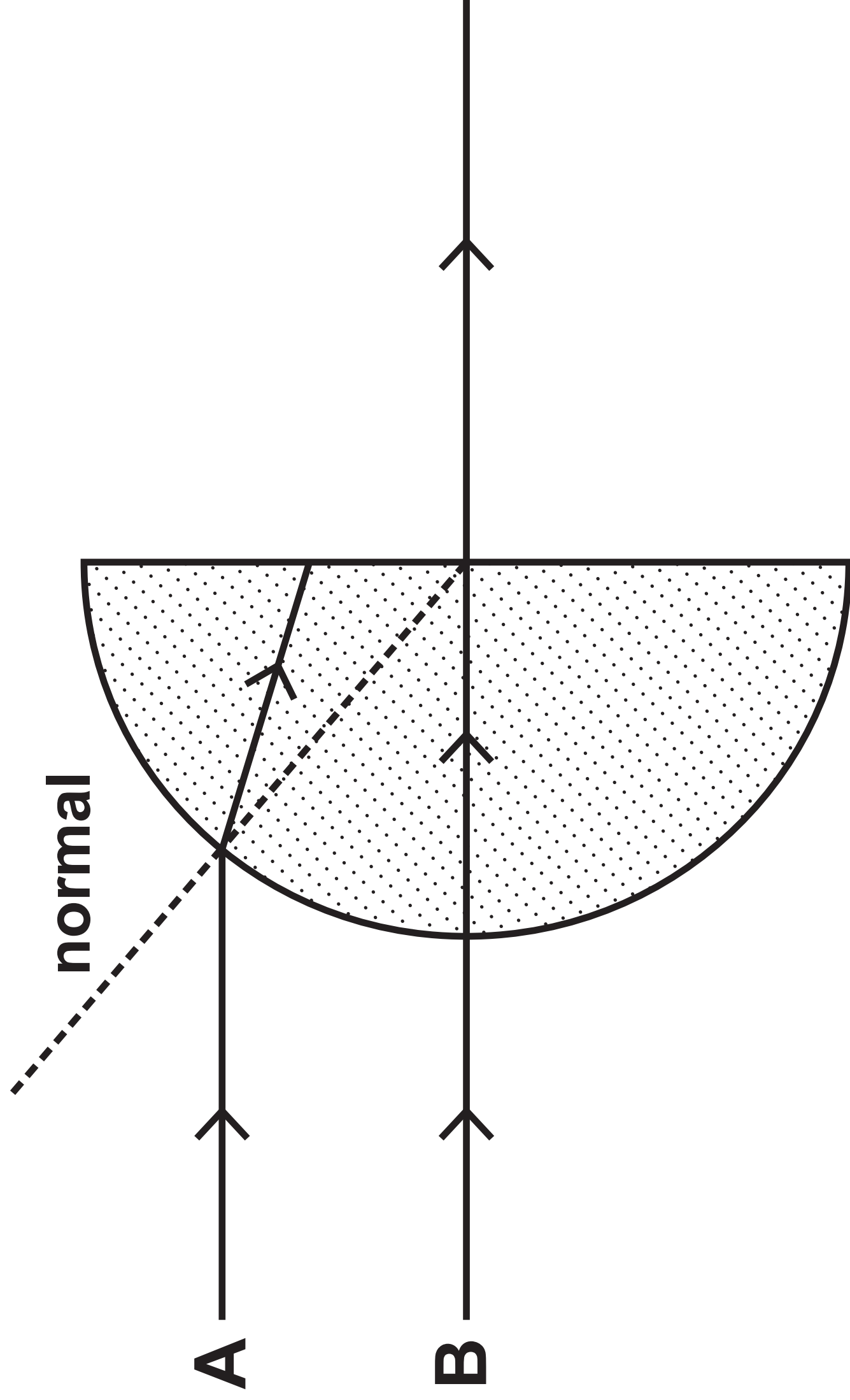


Question 5(b)

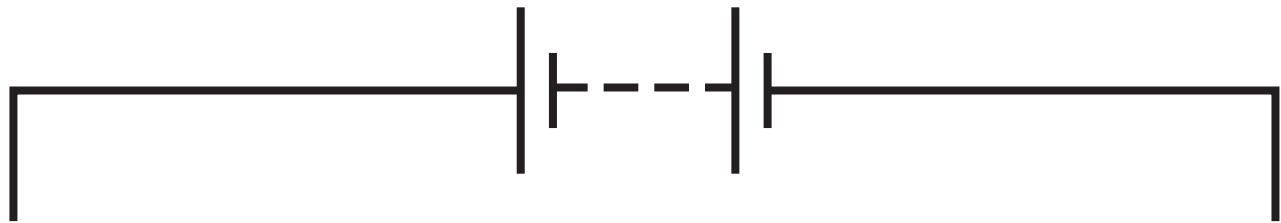
Rock	Mass in g	Volume in cm ³
A	15	6.3
B	13	6.1
C	16	7.5

Question 6

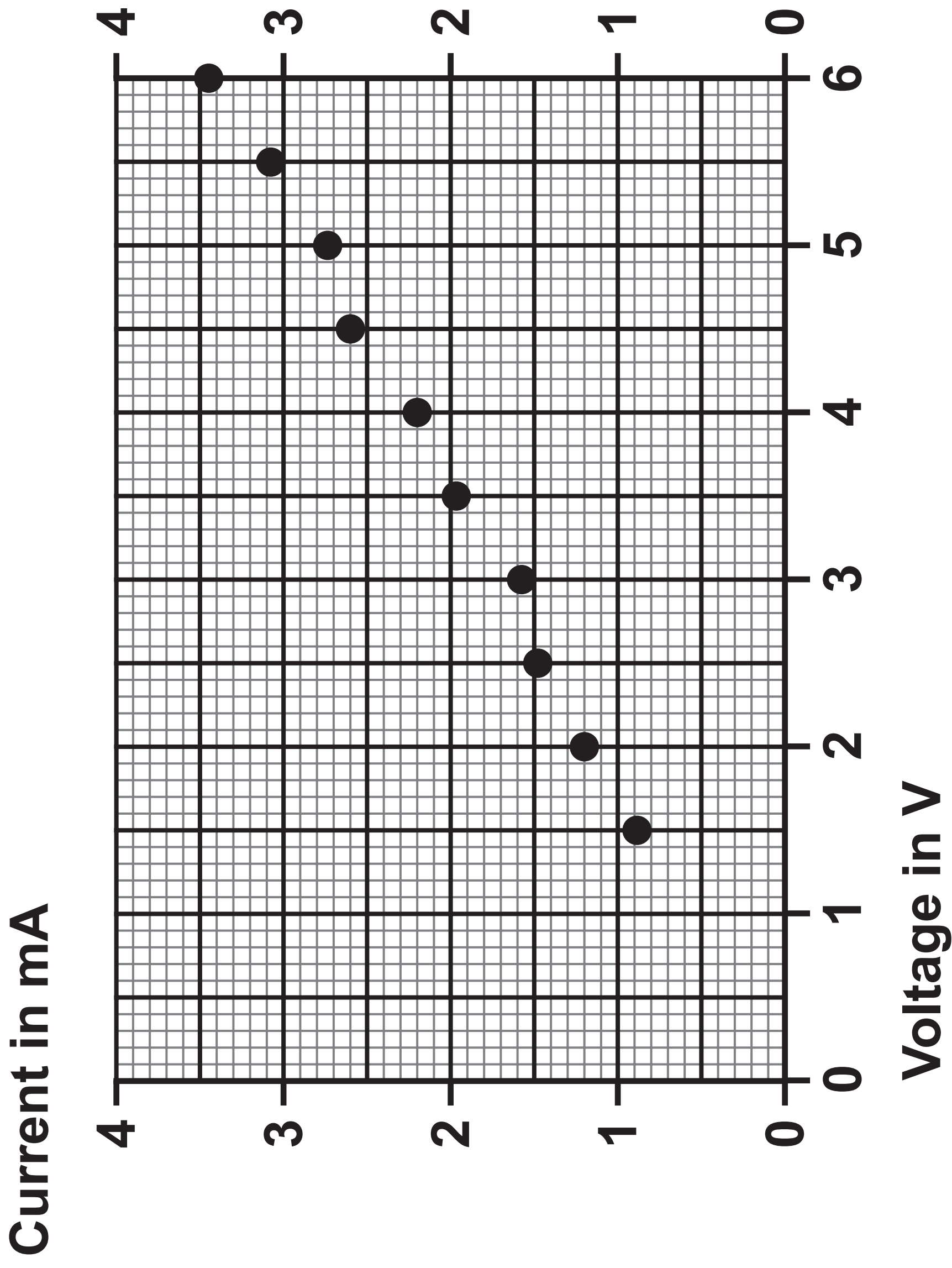
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Question 7(a)

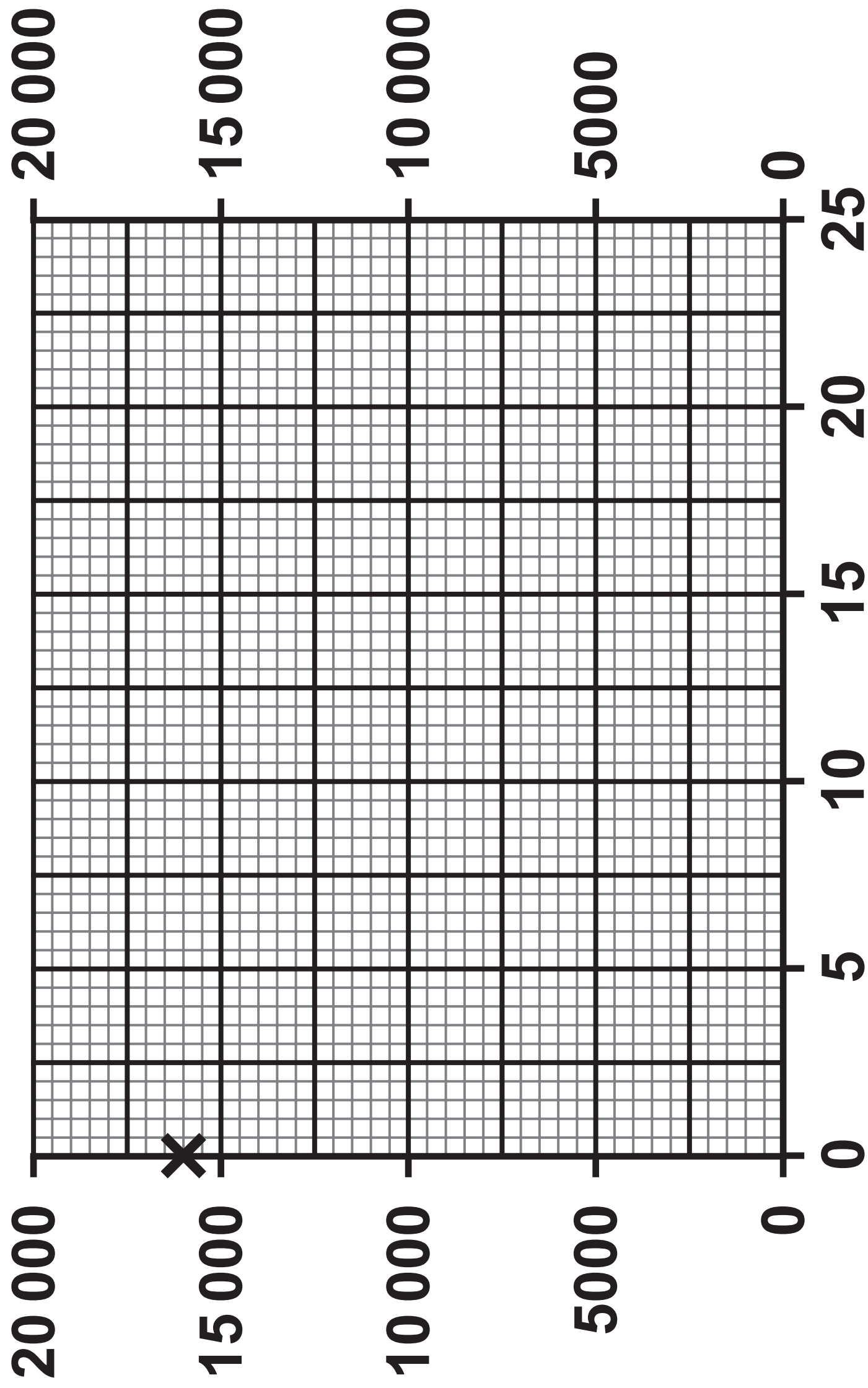


Question 7(b)



Question 8(a)(iii)

Number of atoms



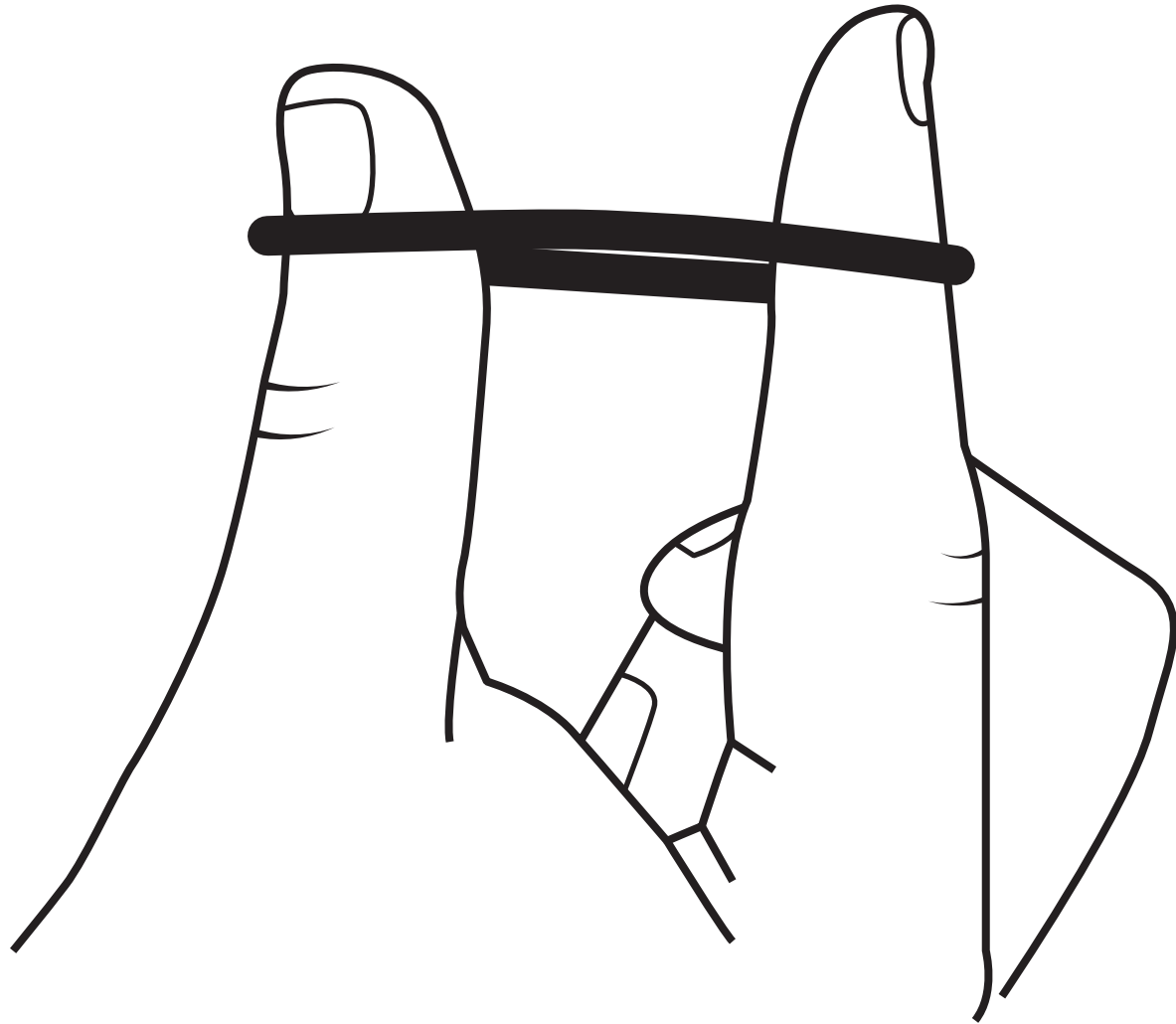
Question 8(c)

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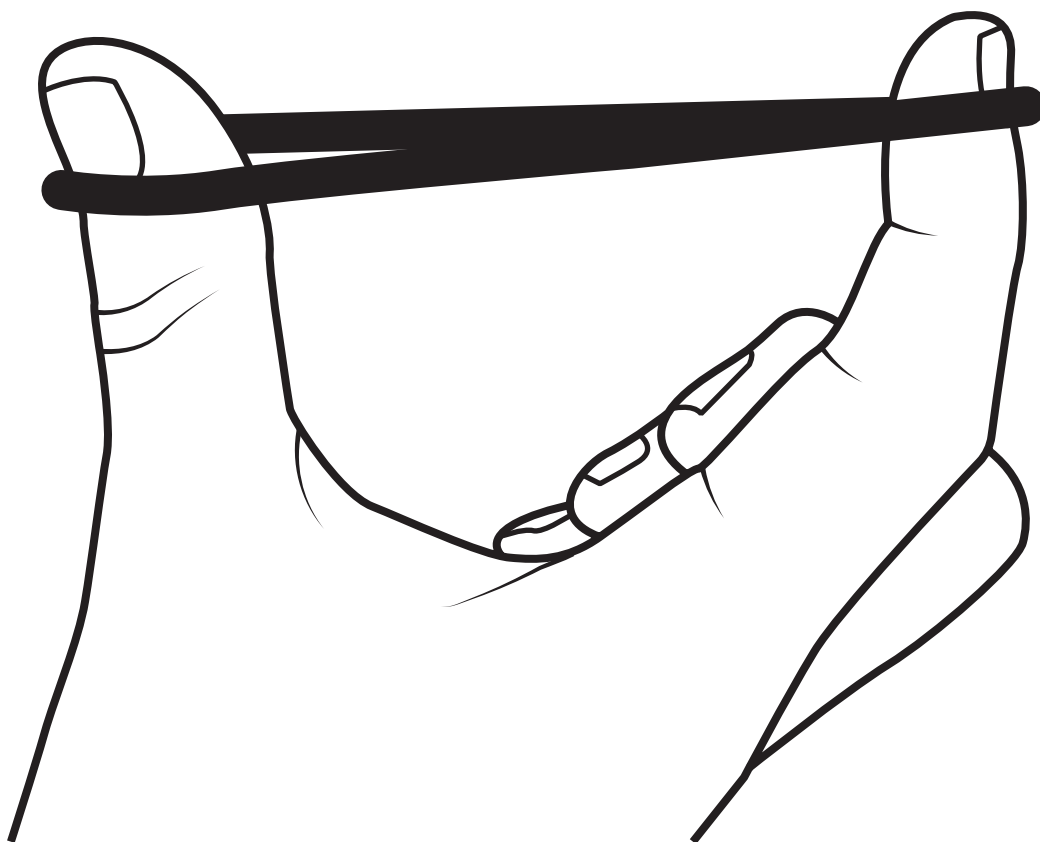
Isotope	Type(s) of radiation emitted	Half-life
iodine-131	beta and gamma	8 days
technetium-99m	gamma	6 hours

Question 9(a)

BEFORE



AFTER



Question 9(b)

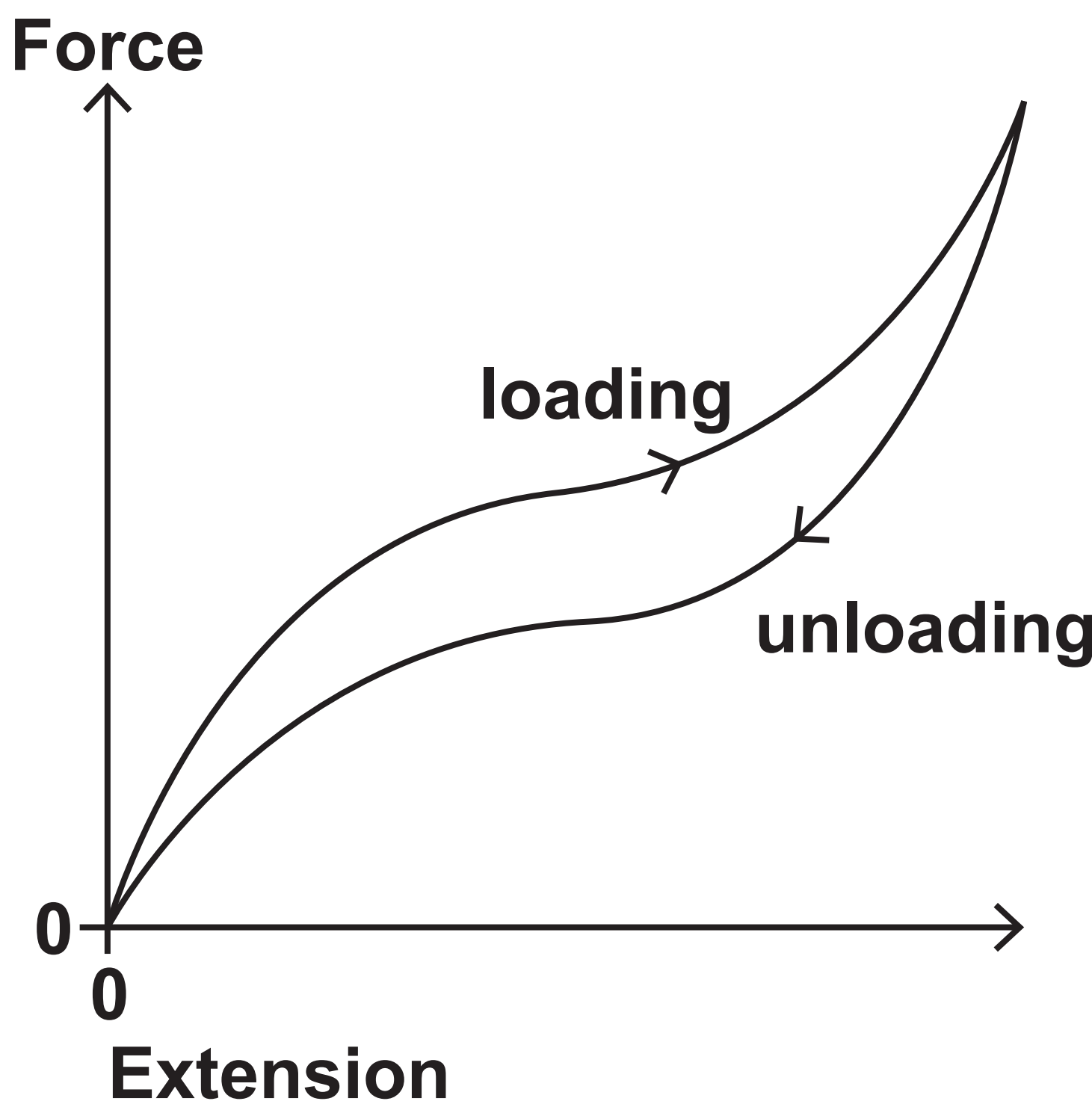
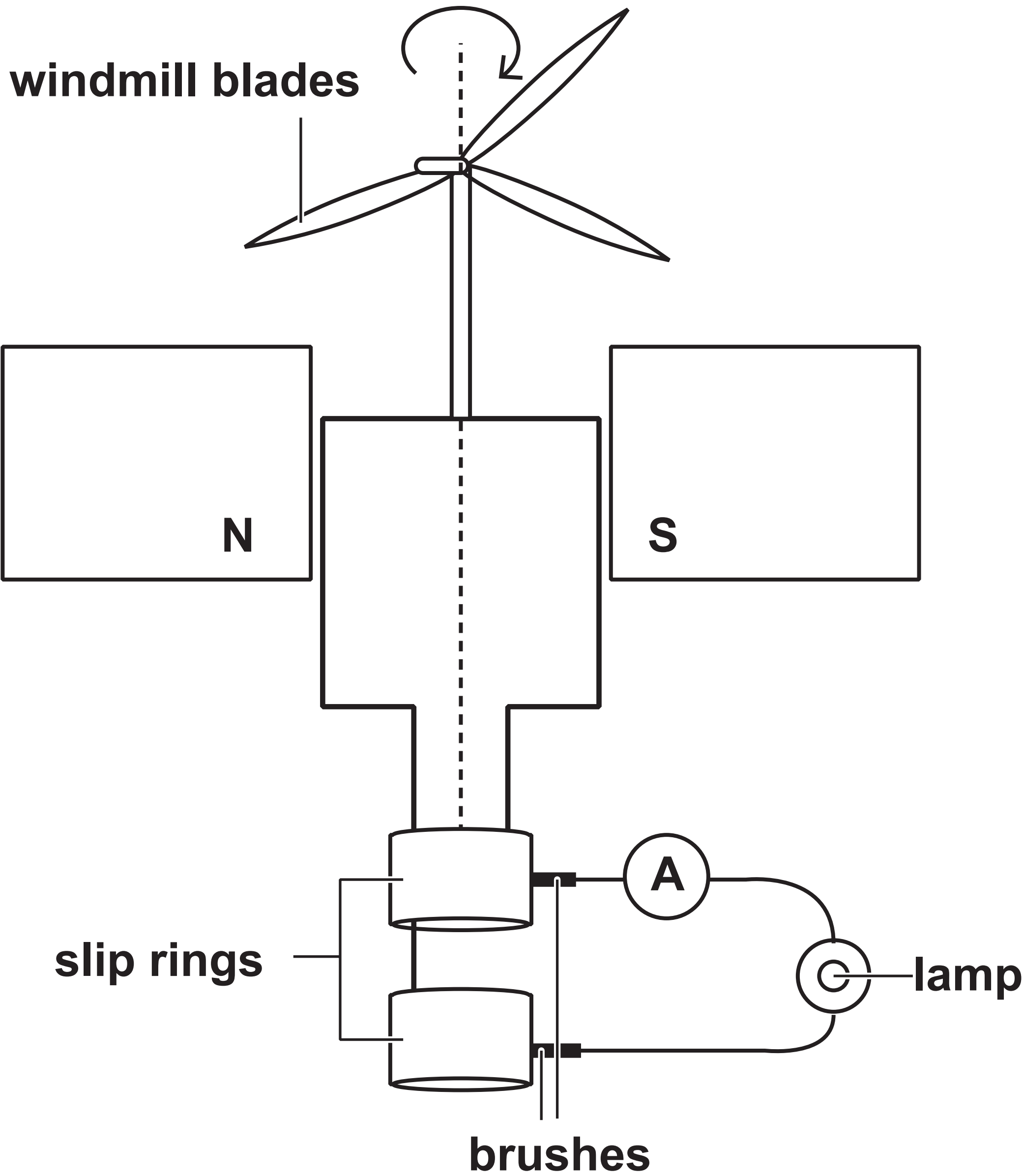


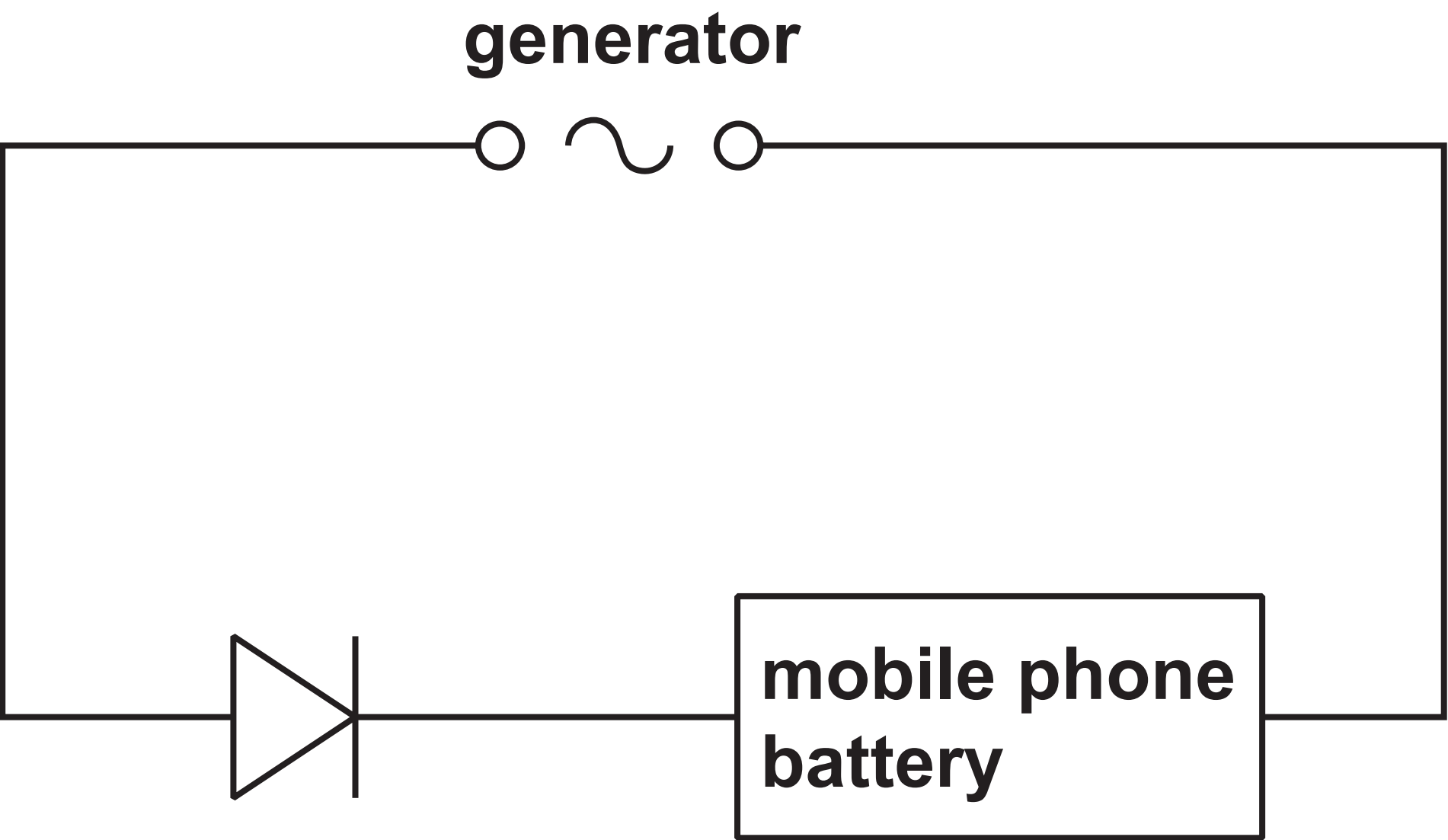
DIAGRAM 1
TOP VIEW

coil rotates in direction of arrow



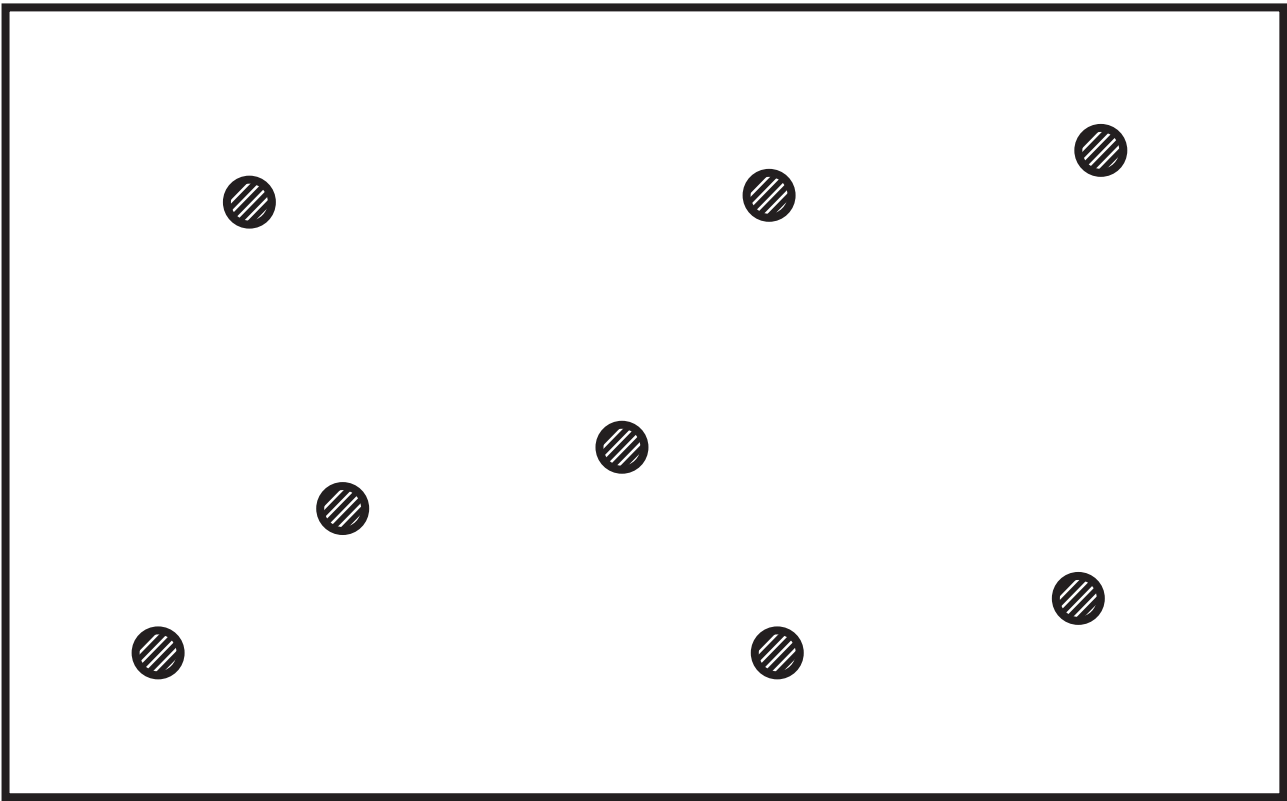
Question 10(b)

DIAGRAM 2



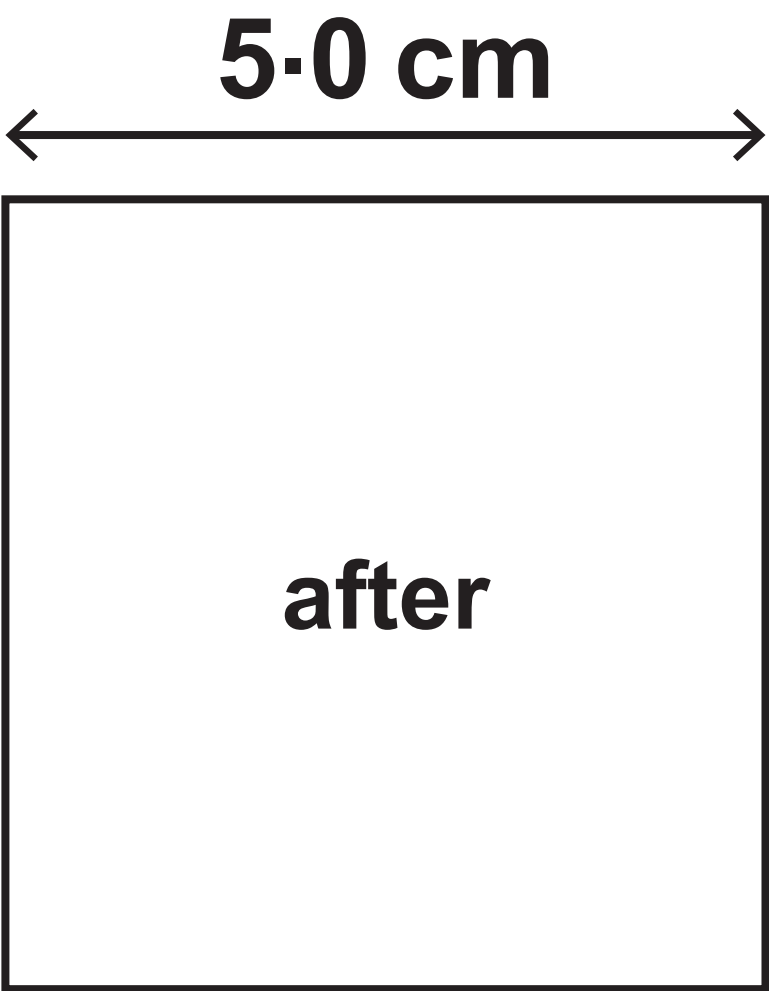
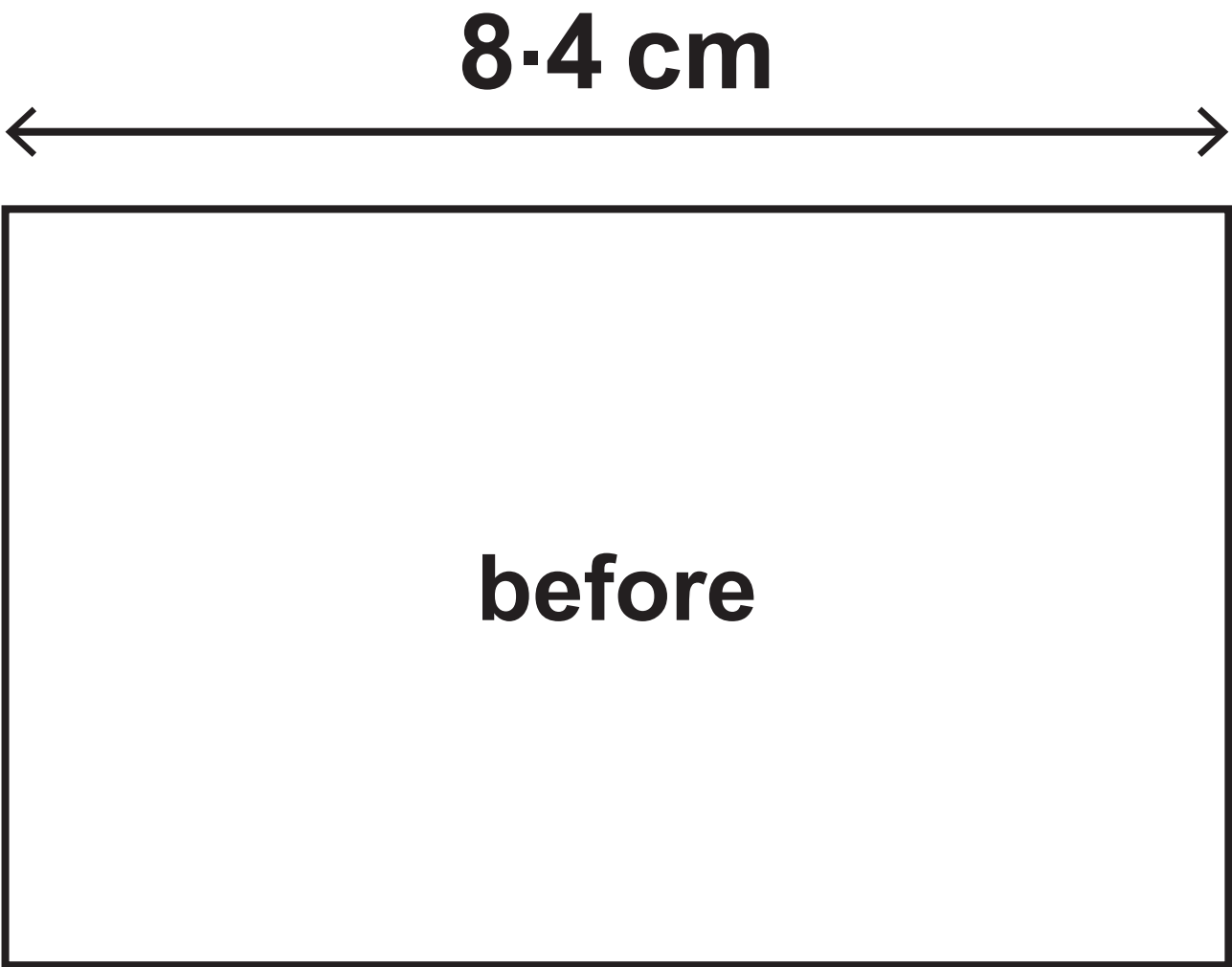
Question 11(a)

DIAGRAM 1

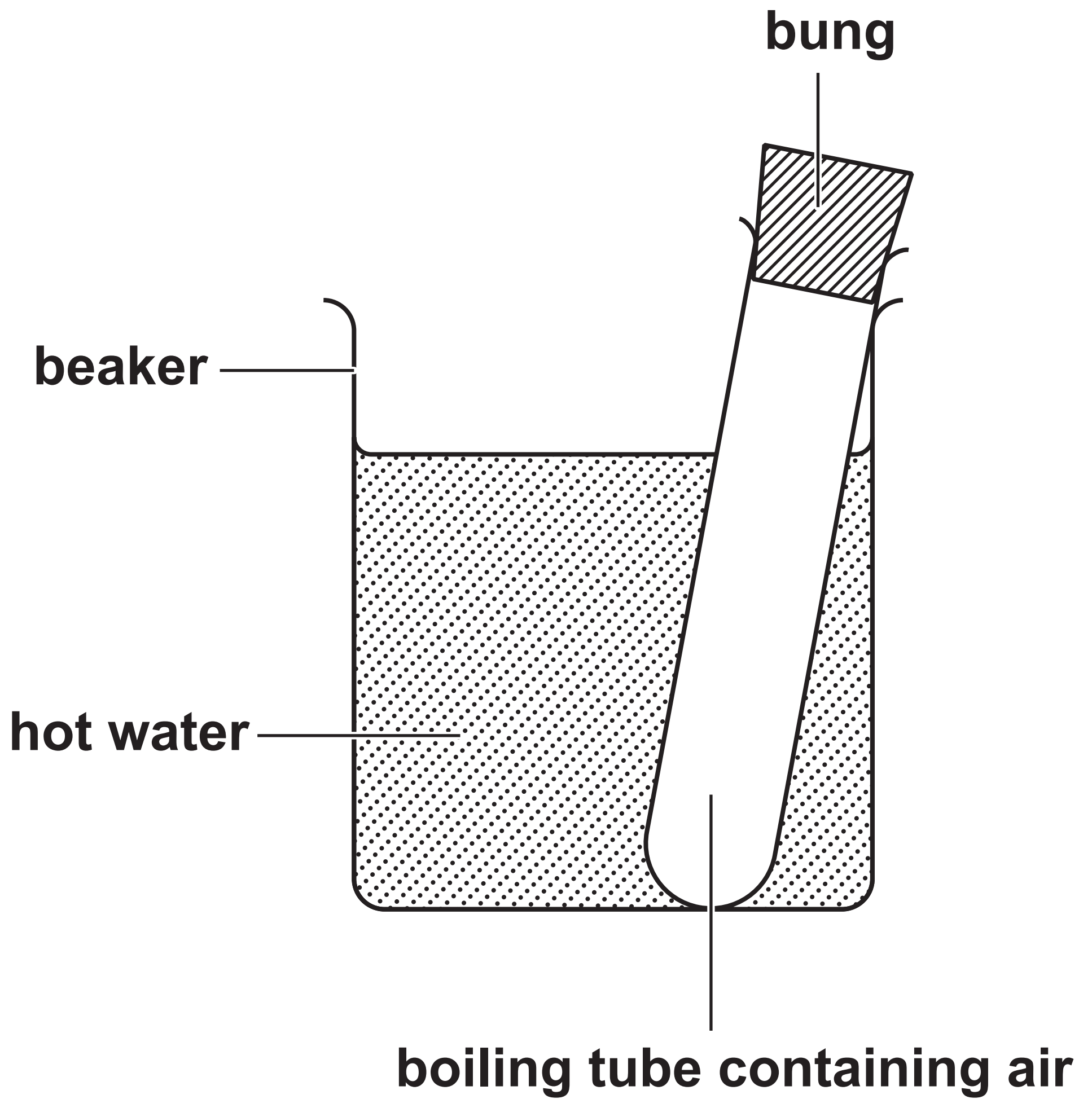


Question 11(b)

DIAGRAM 2

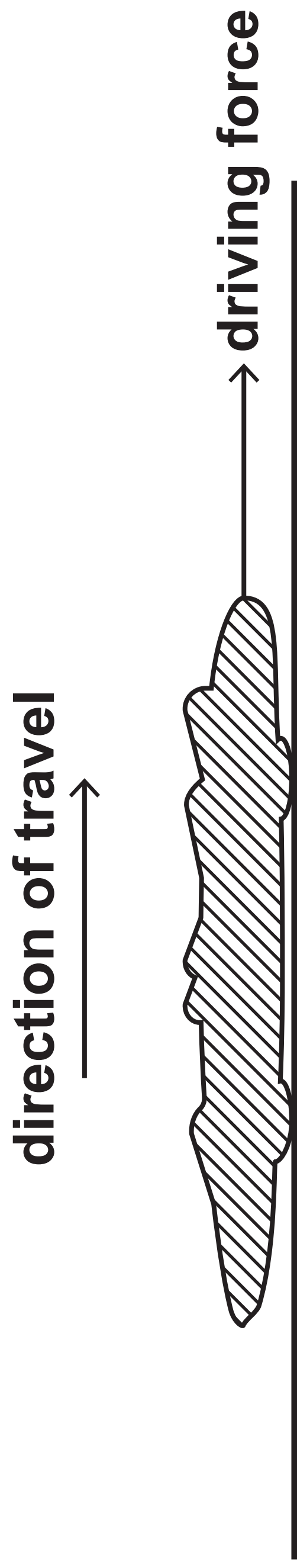


Question 12



Question 3(b)

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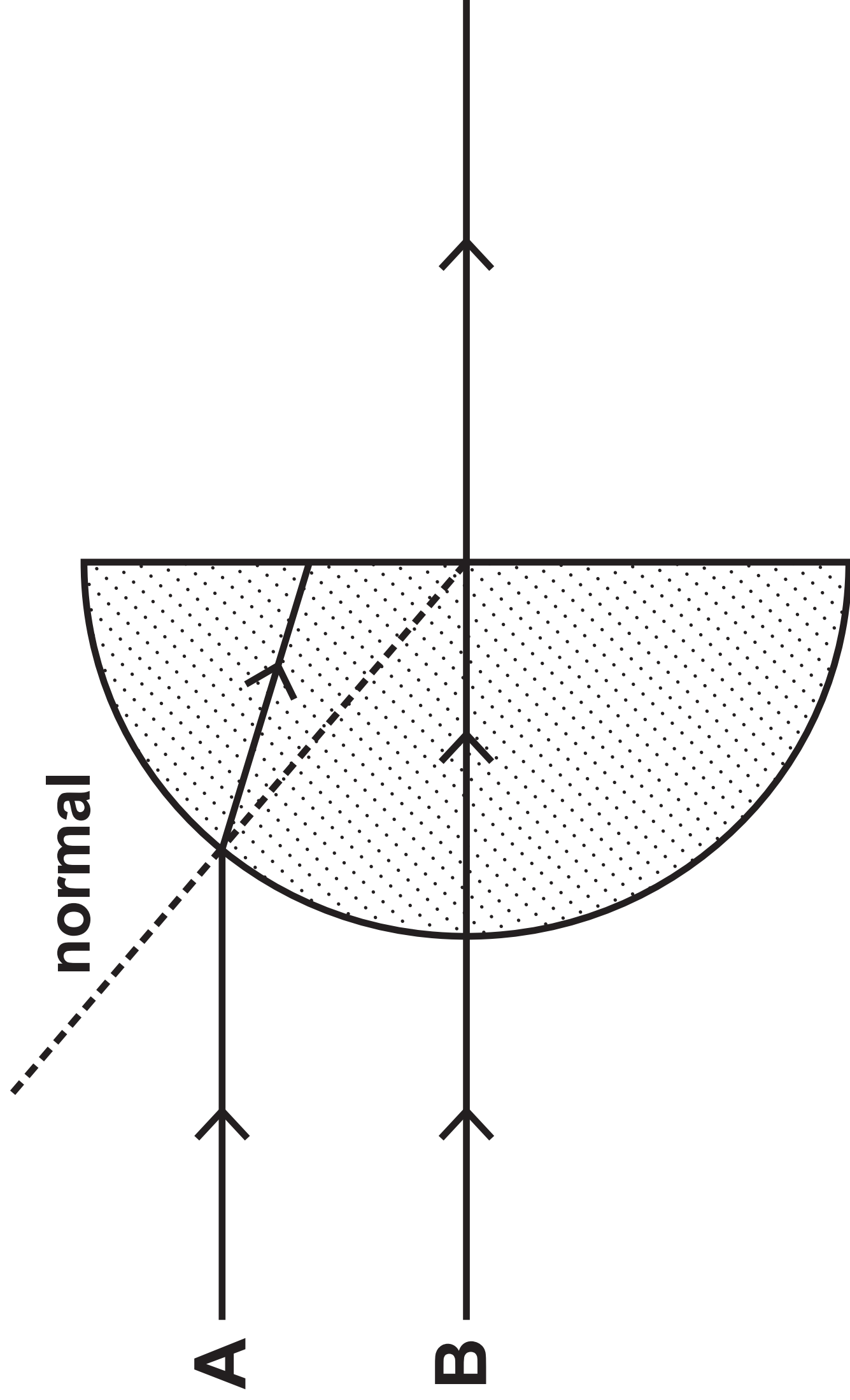


Question 4(a)

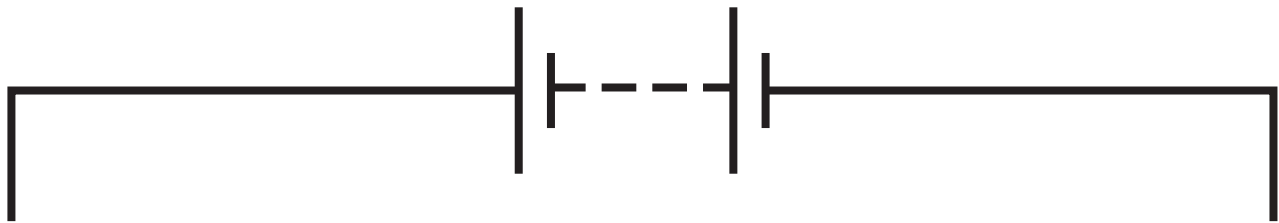
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Question 6

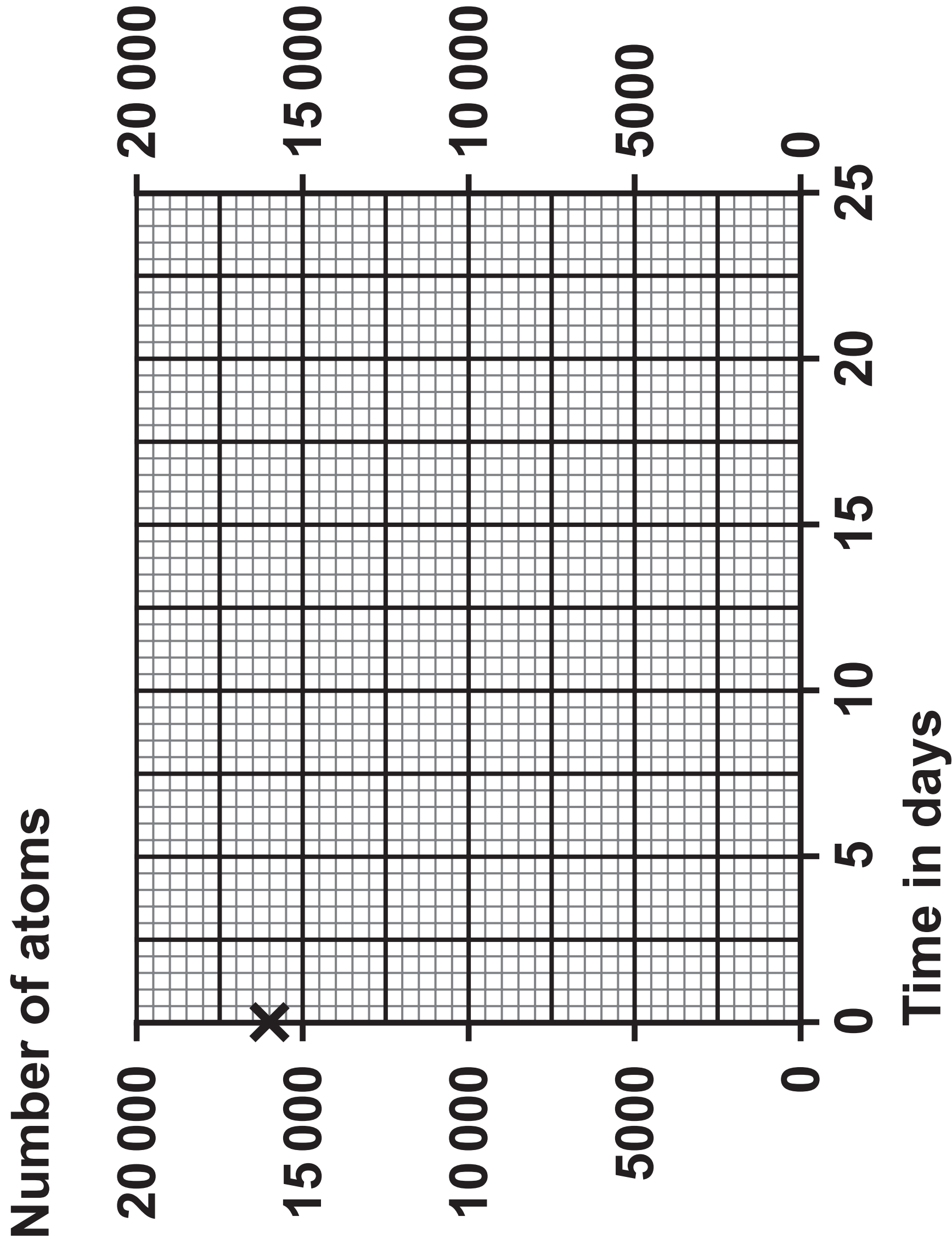
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Question 7(a)

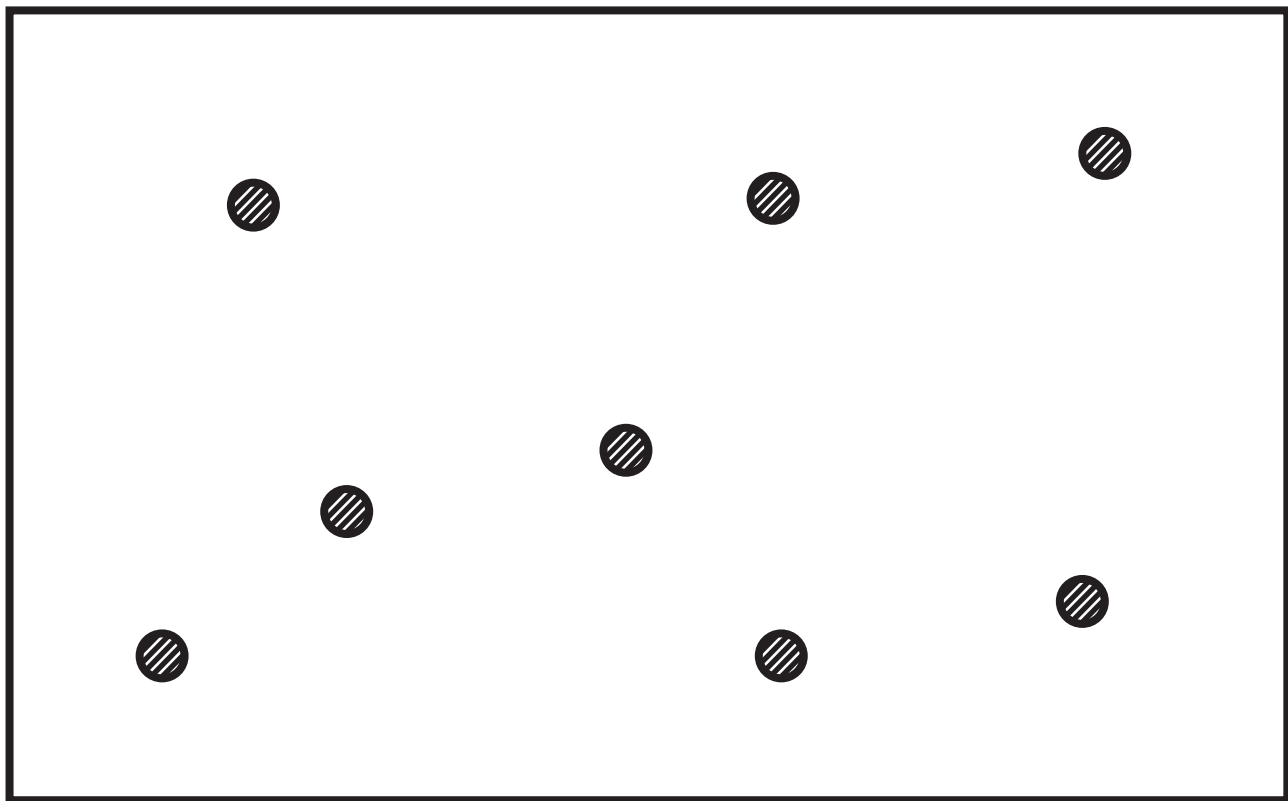


Question 8(a)(iii)



Question 11(a)

DIAGRAM 1



Question 2

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Question 5

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