

Paper Reference(s) 9PH0/03

Pearson Edexcel Level 3 GCE

Physics

Advanced

**PAPER 3: General and Practical Principles
in Physics**

Tuesday 17 June 2025 – Morning

Time: 2 hours 30 minutes

Diagram Booklet

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

Surname					
Other names					
Centre Number					
Candidate Number					

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THE EXAMINATION**

INSTRUCTIONS

**There may be spare copies of
some diagrams.**

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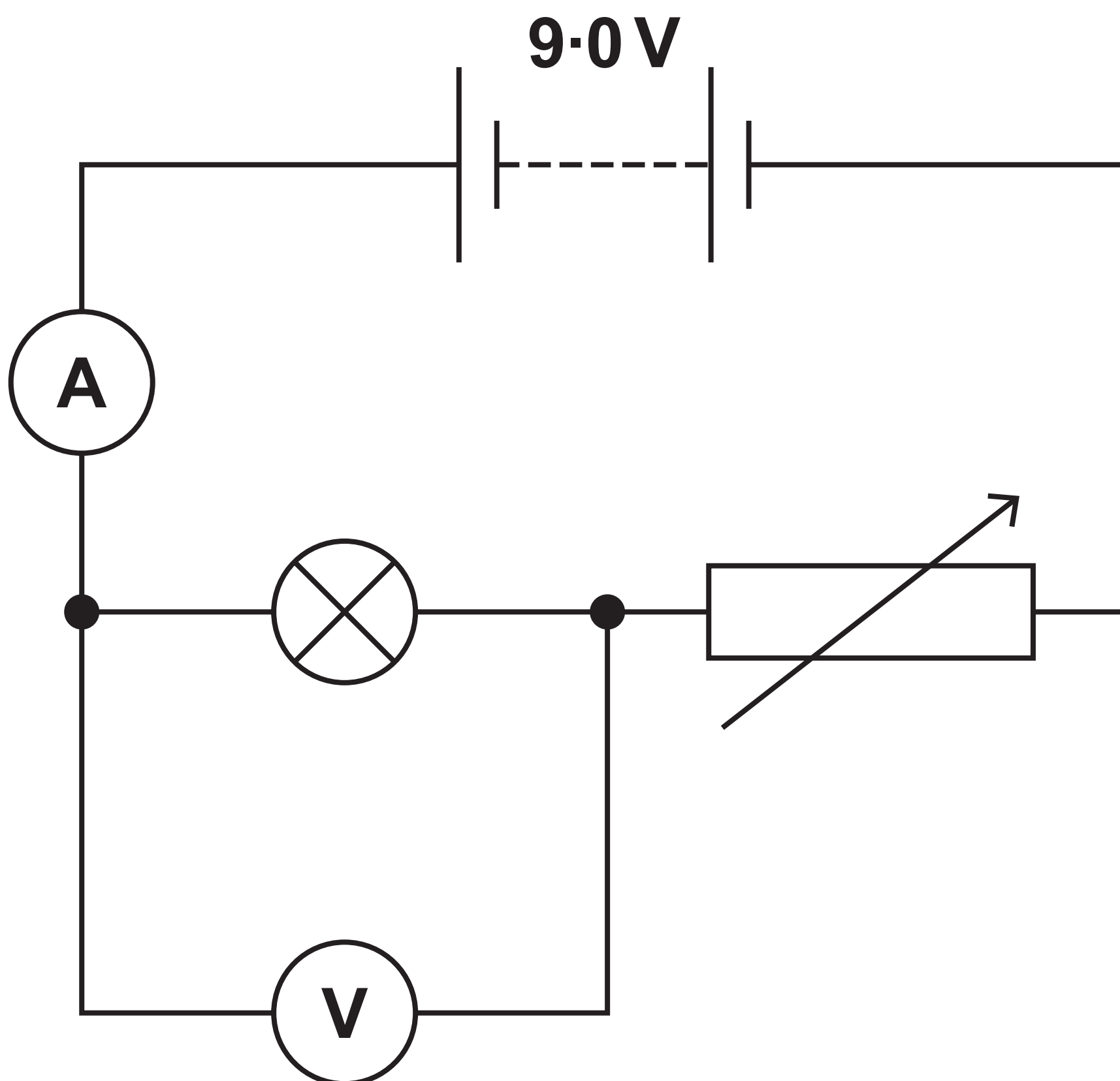
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Question 1(a)



Question 2

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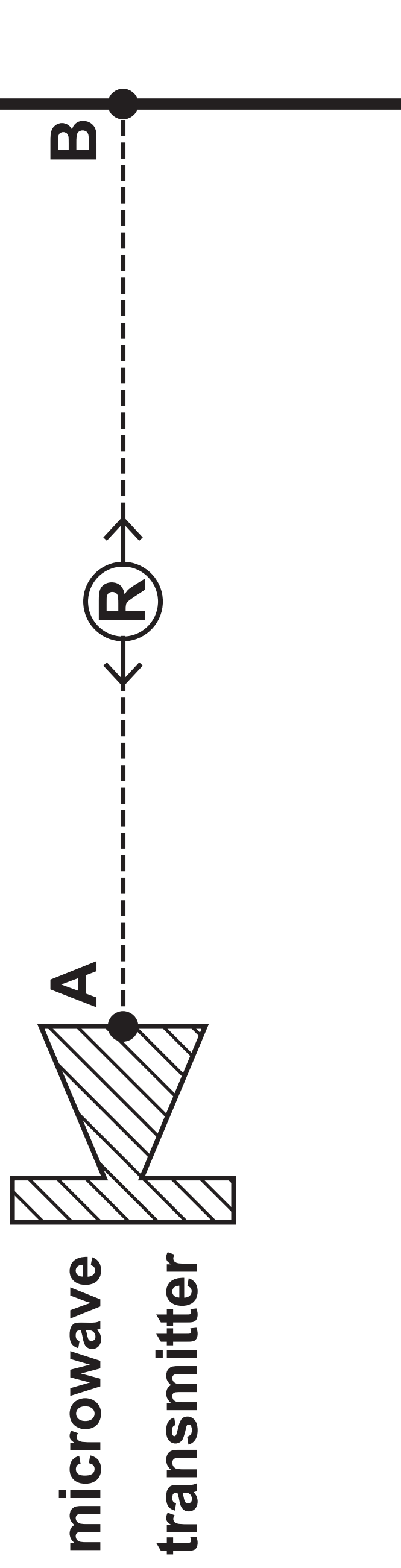
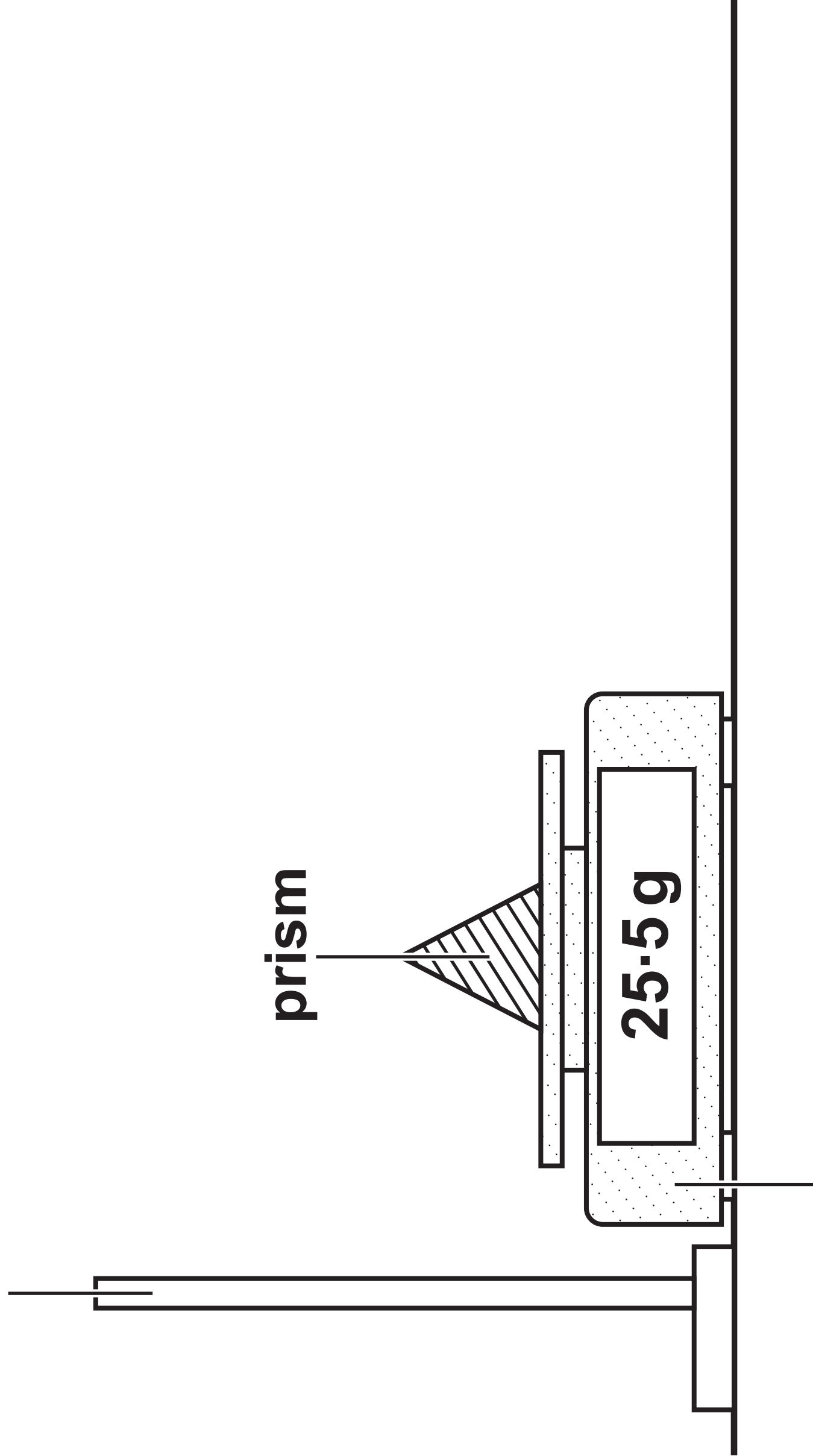


DIAGRAM 1

clamp stand



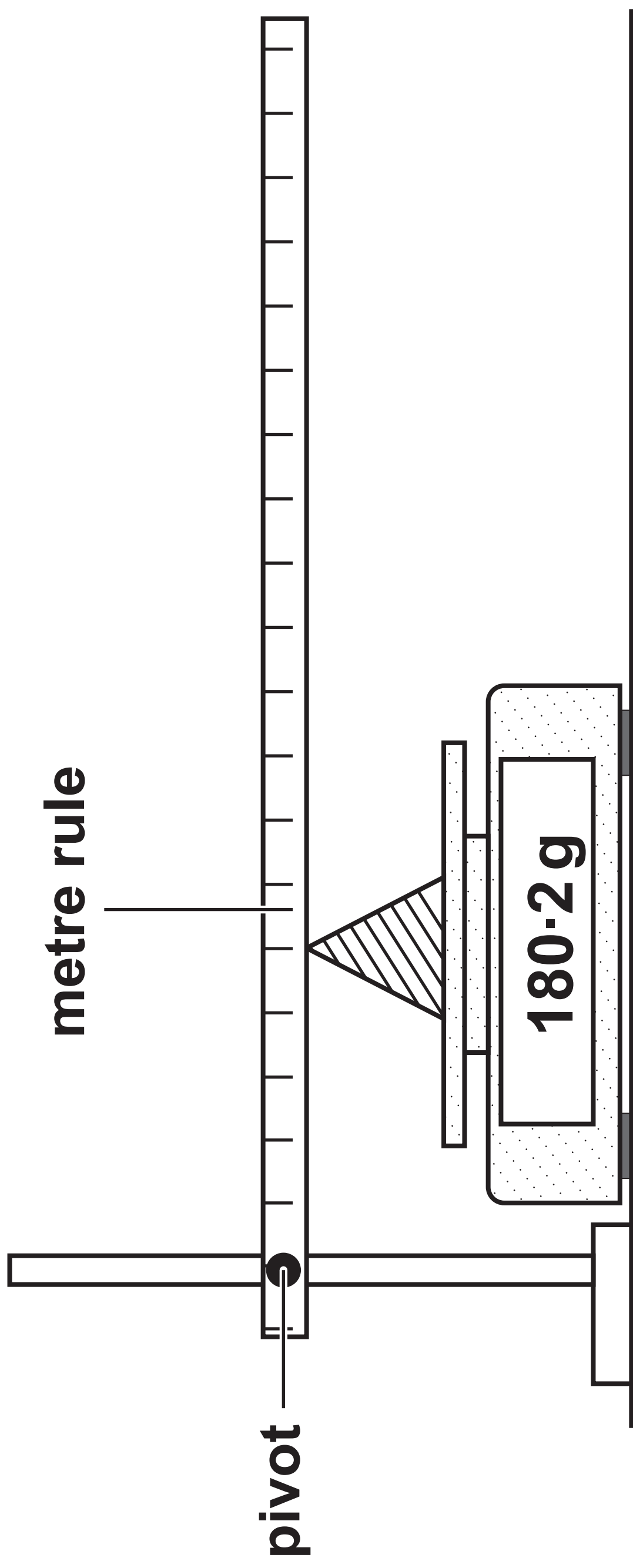
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Question 3 continued.

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DIAGRAM 2



Question 4(a)(i)

DIAGRAM 1

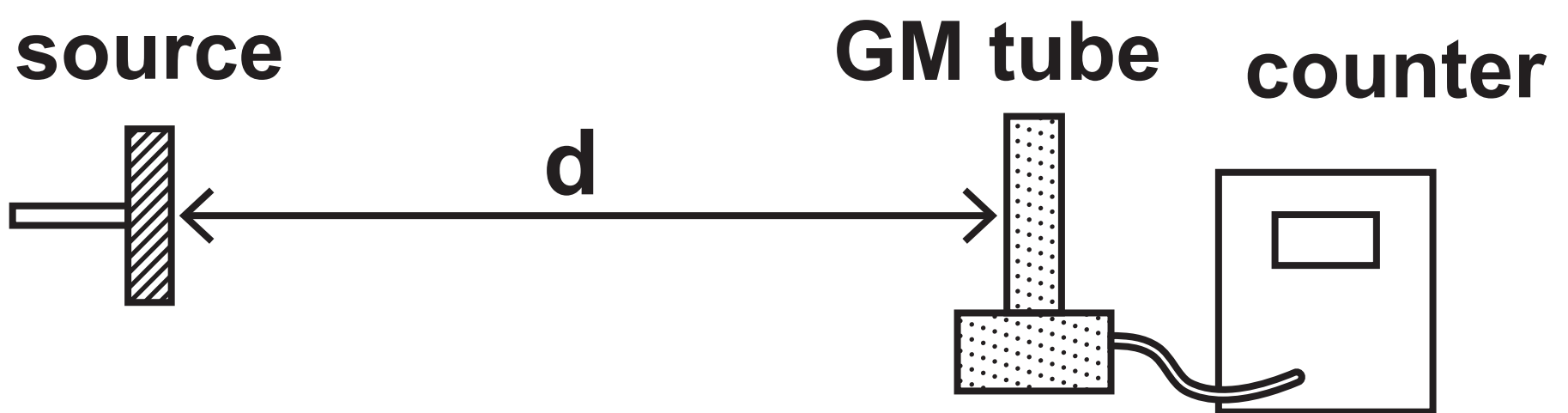
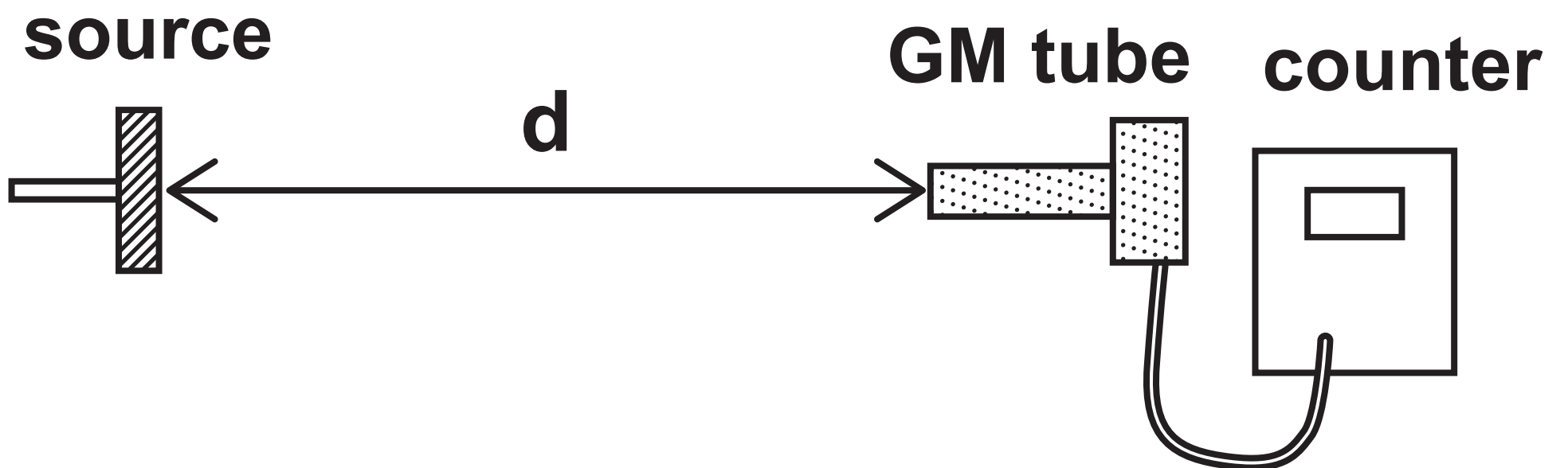
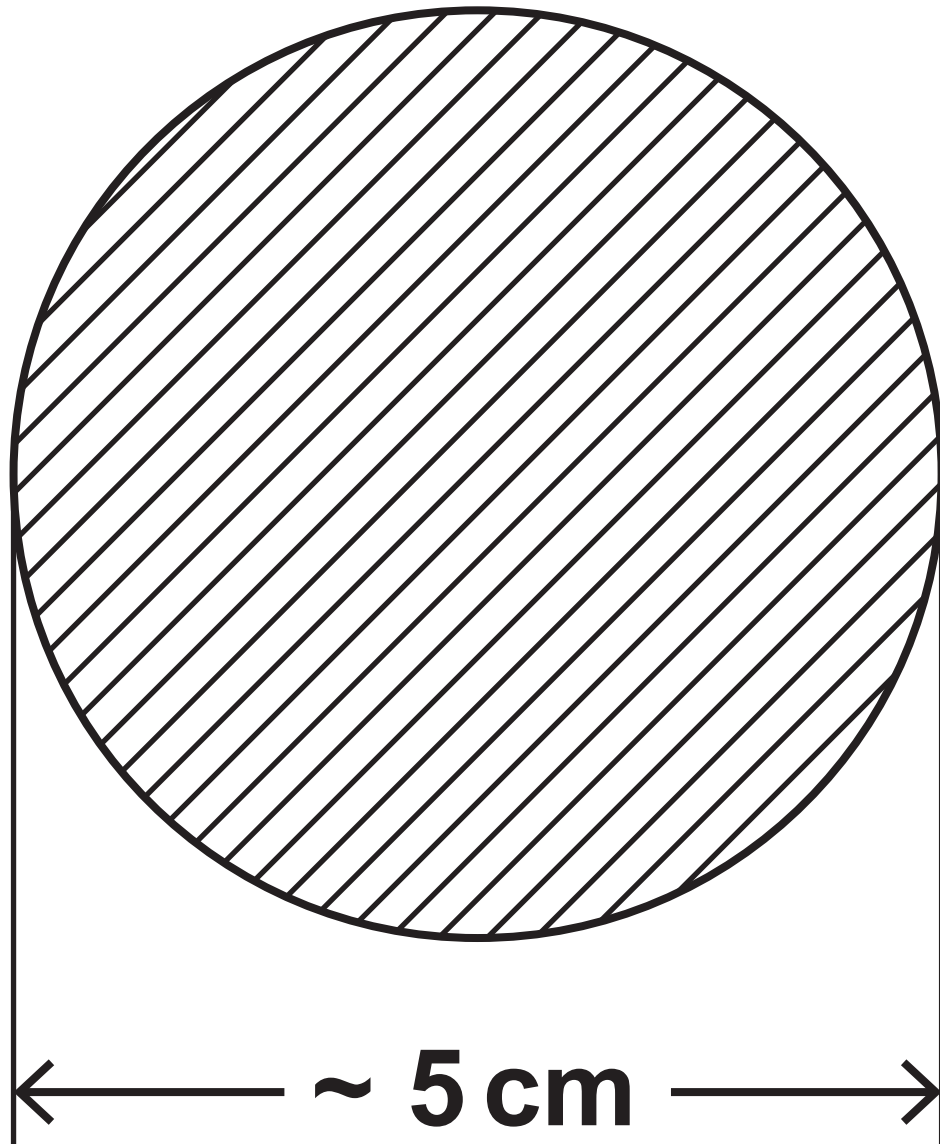


DIAGRAM 2

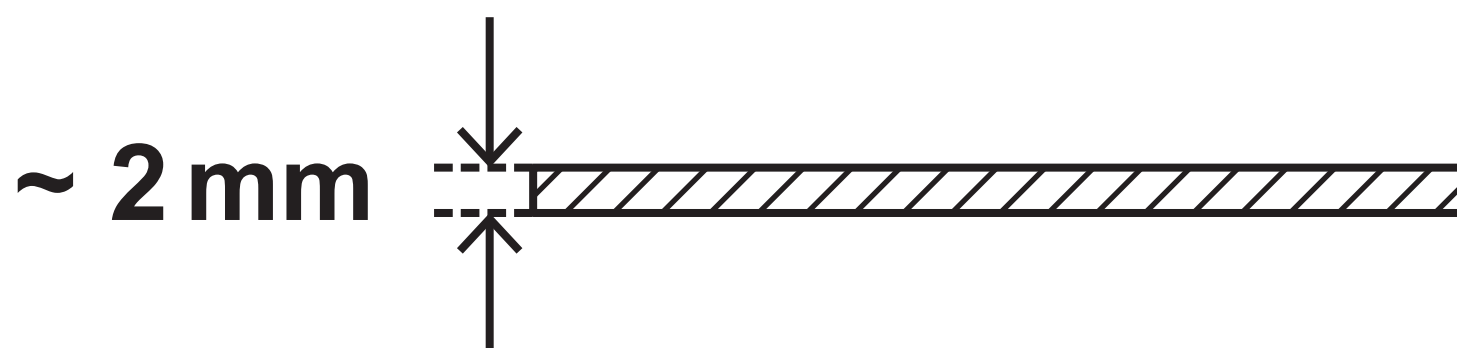


Question 7

View of disc from above



Side view of disc

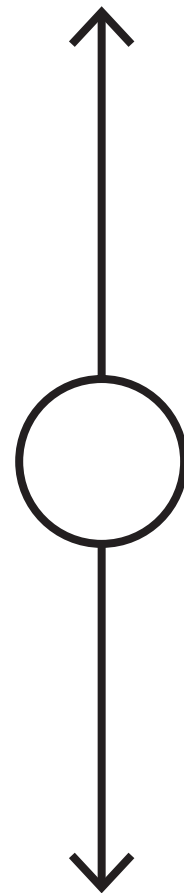


Question 8(a)

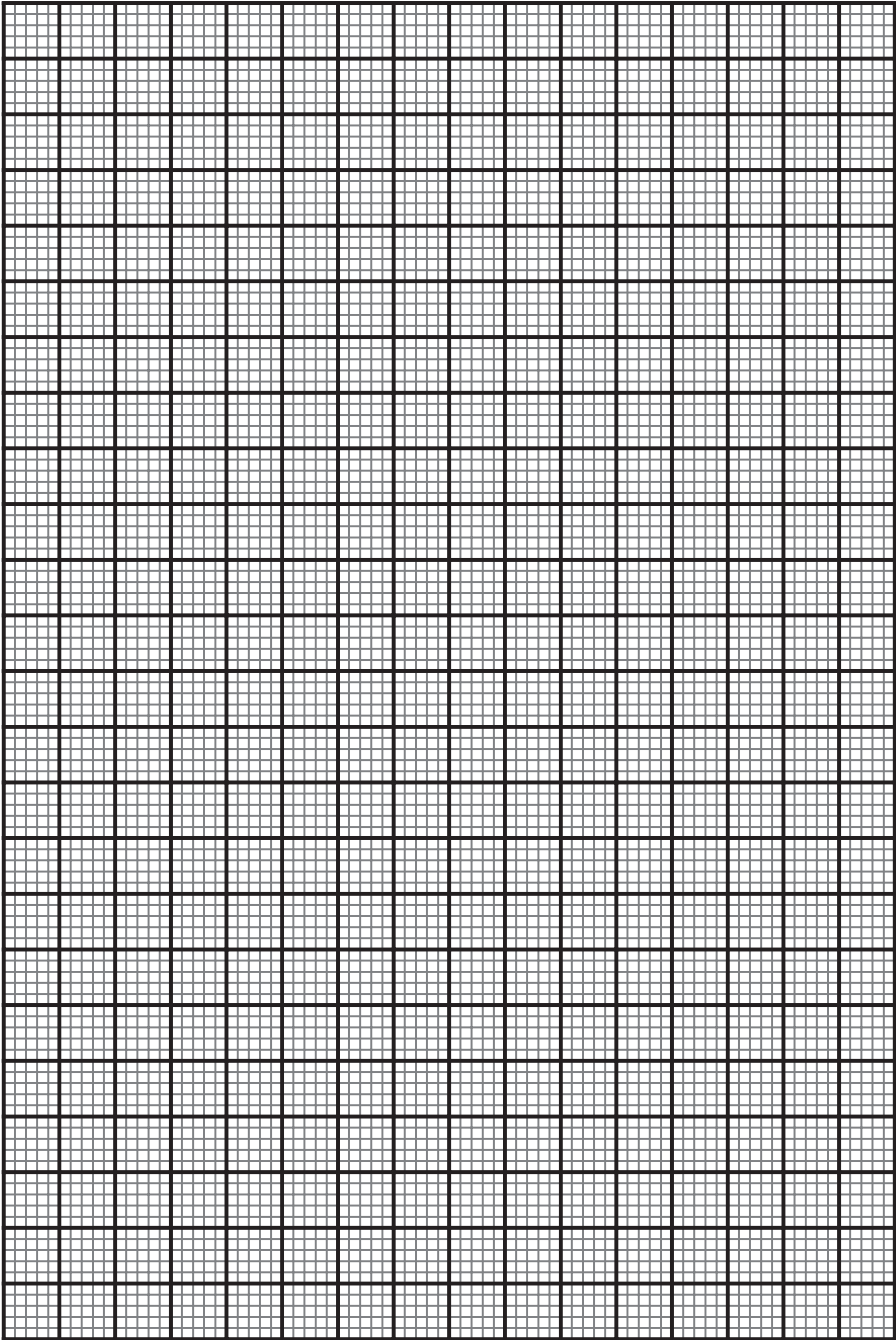
**air bubble
moving
upwards
through the
chocolate**



upthrust



drag



Question 9

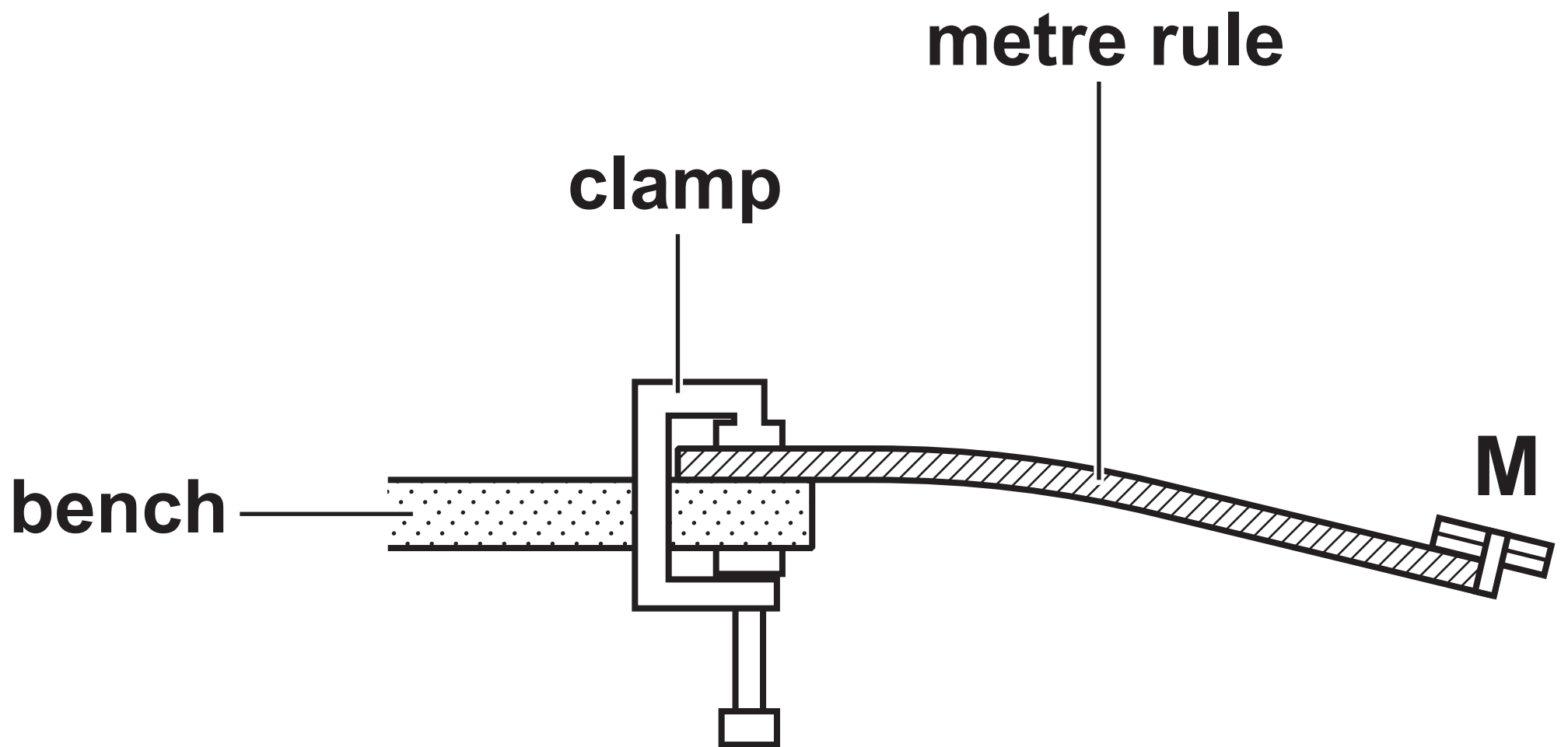


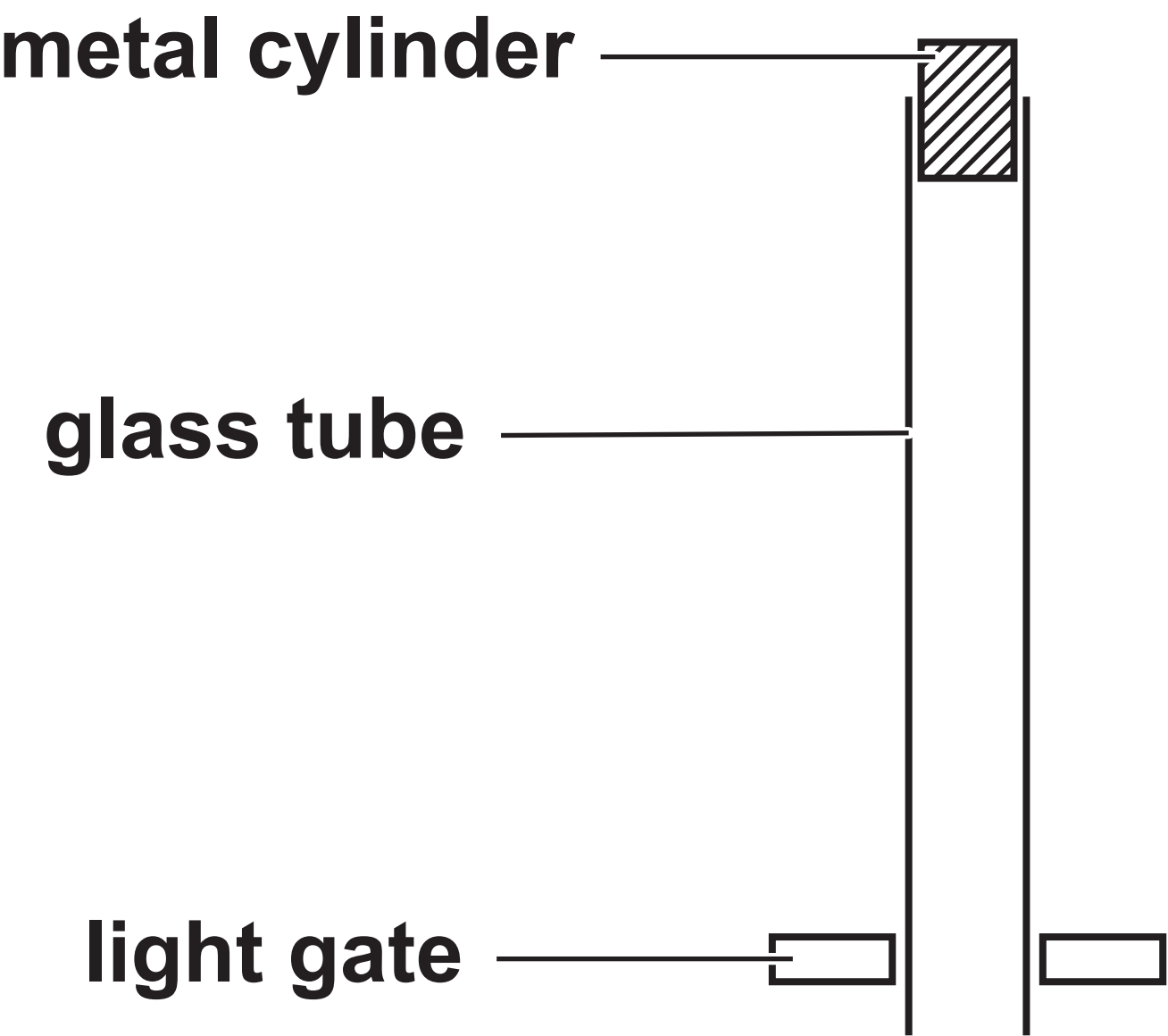
TABLE 1

		Time for 5 oscillations			
	Young modulus	L / m	t ₁ / s	t ₂ / s	t ₃ / s
Metre rule	E ₁	0.95	14.69	14.64	14.76
Half-metre rule	E ₂	0.45	5.33	5.40	5.24

TABLE 2

Type of wood	Cedar	Spruce	Pine
Young modulus / GPa	7.7	9.6	10.1

Question 12



Question 12(a)

t_1 / ms	t_2 / ms	t_3 / ms	t_4 / ms
7.85	7.81	7.79	7.80

