

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

Physics
PAPER 1
Higher Tier

Thursday 25 May 2023 – Morning

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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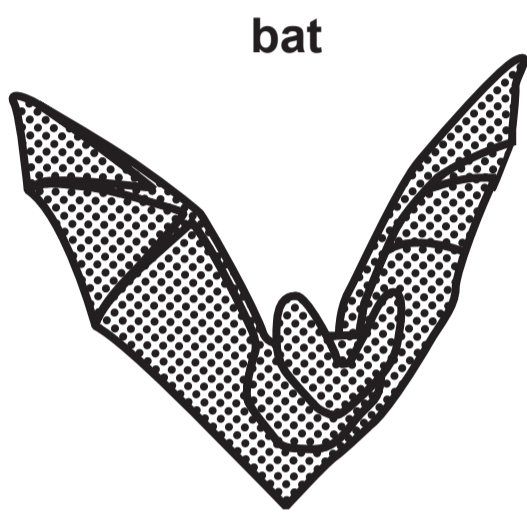
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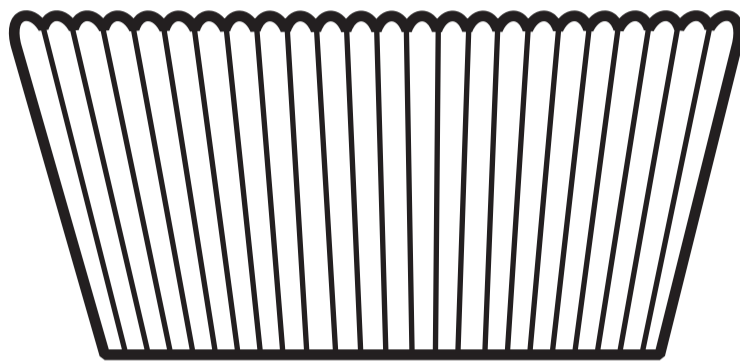
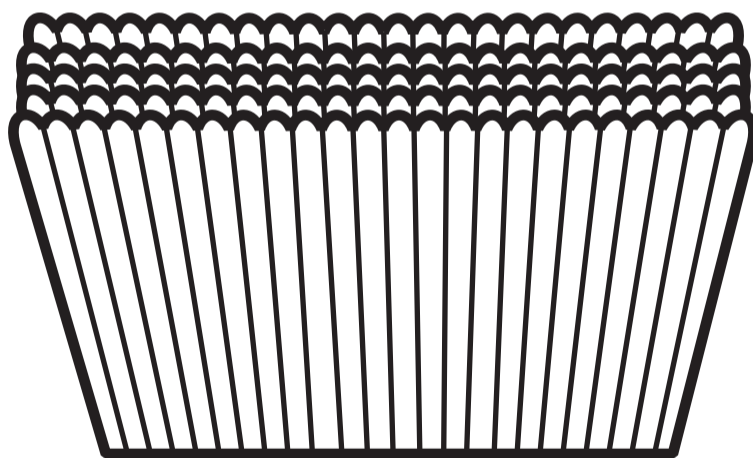
Question 1(a) – not to scale

FIGURE 1



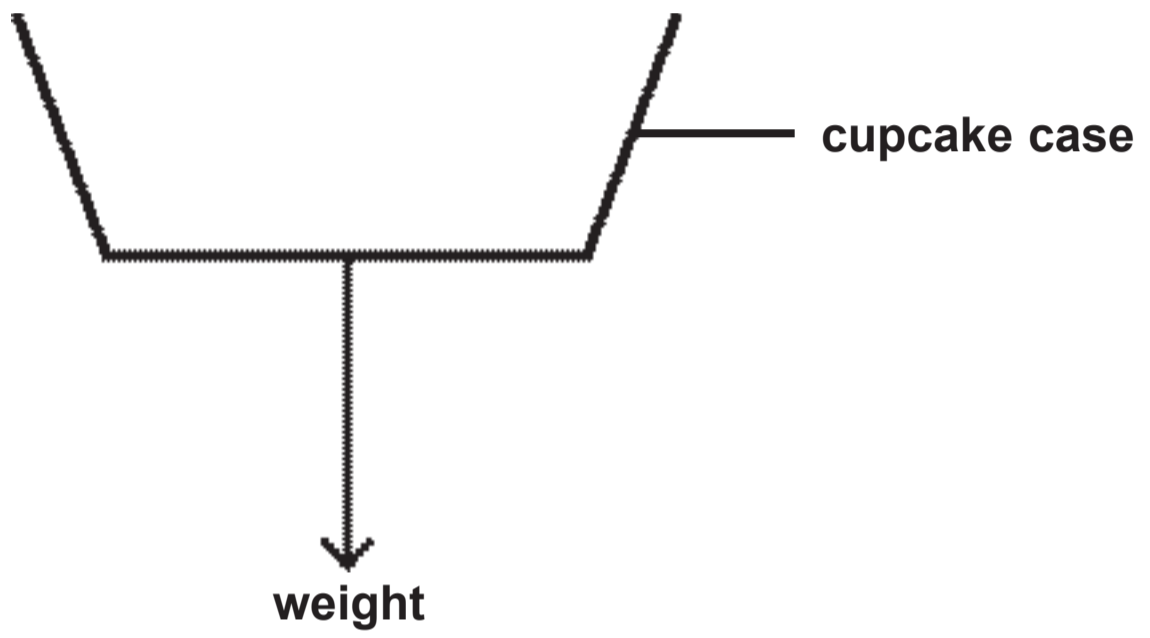
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Question 2(b)**FIGURE 2****FIGURE 3**

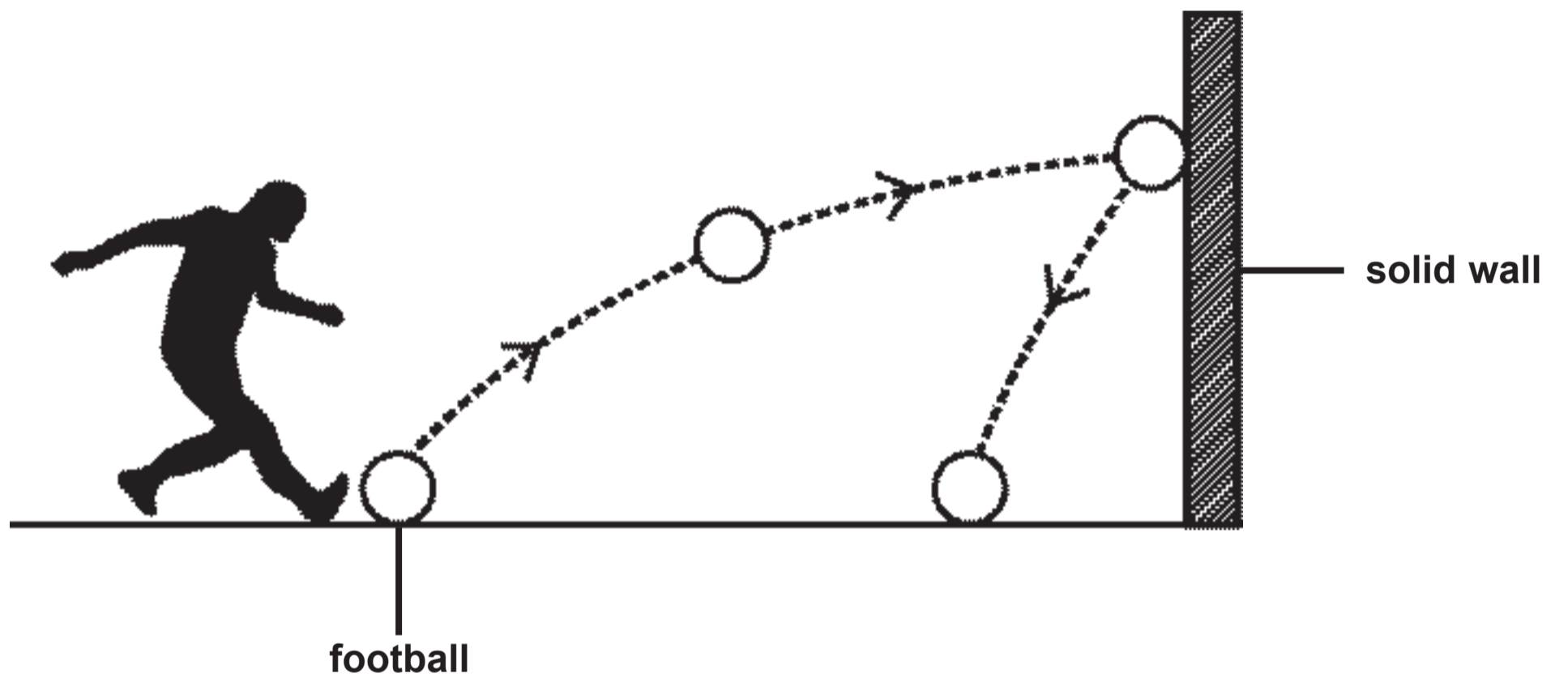
Question 2(b)(iii)

FIGURE 4



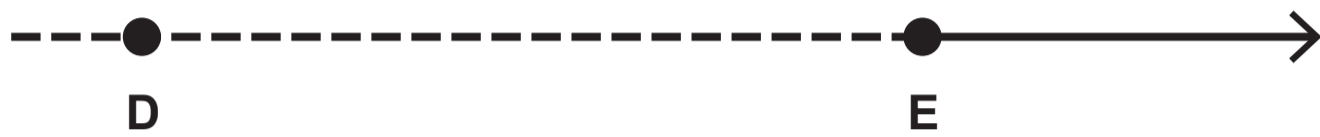
Question 3(a)

FIGURE 5



Question 4(a)

FIGURE 6

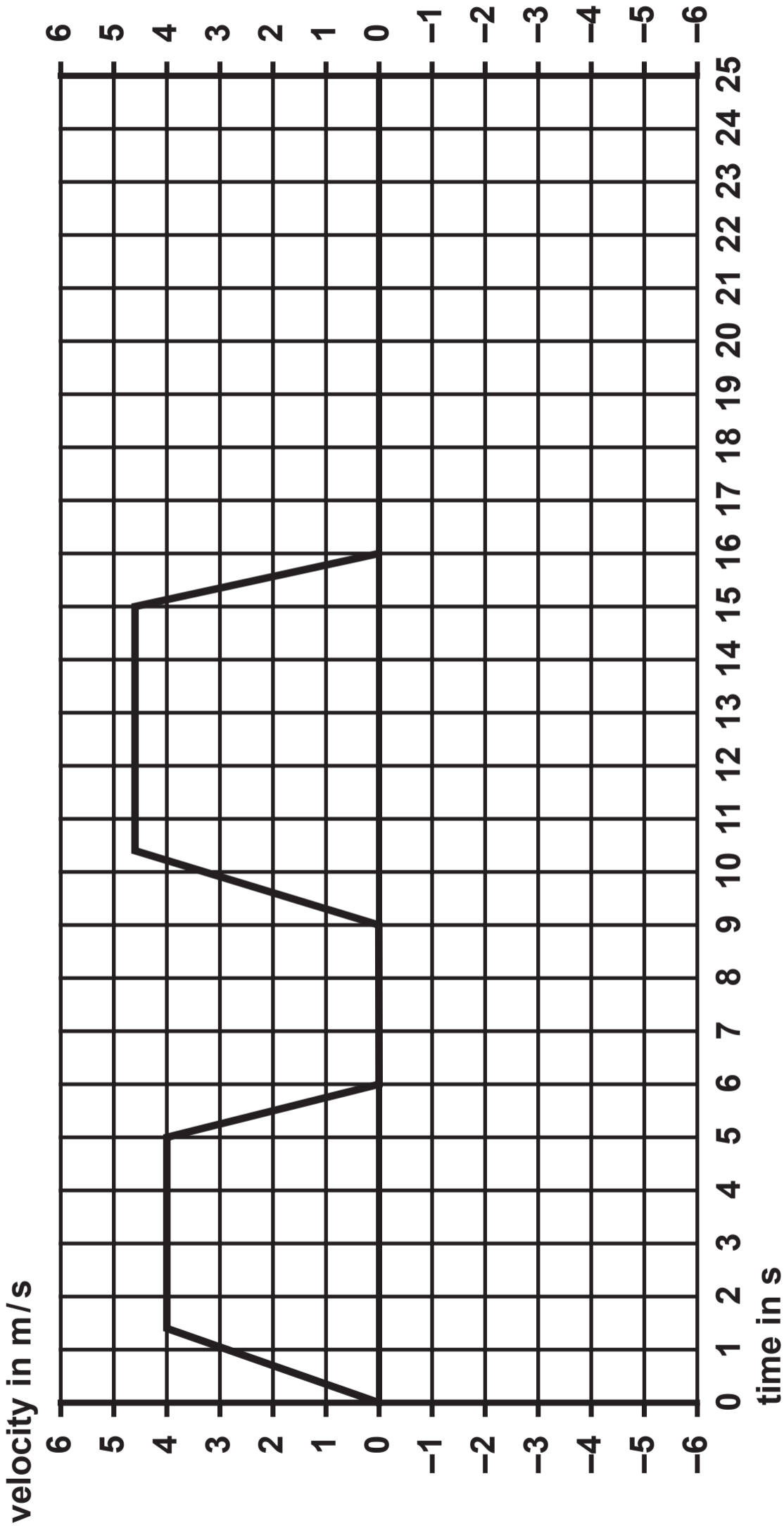


Question 4(c)

FIGURE 7

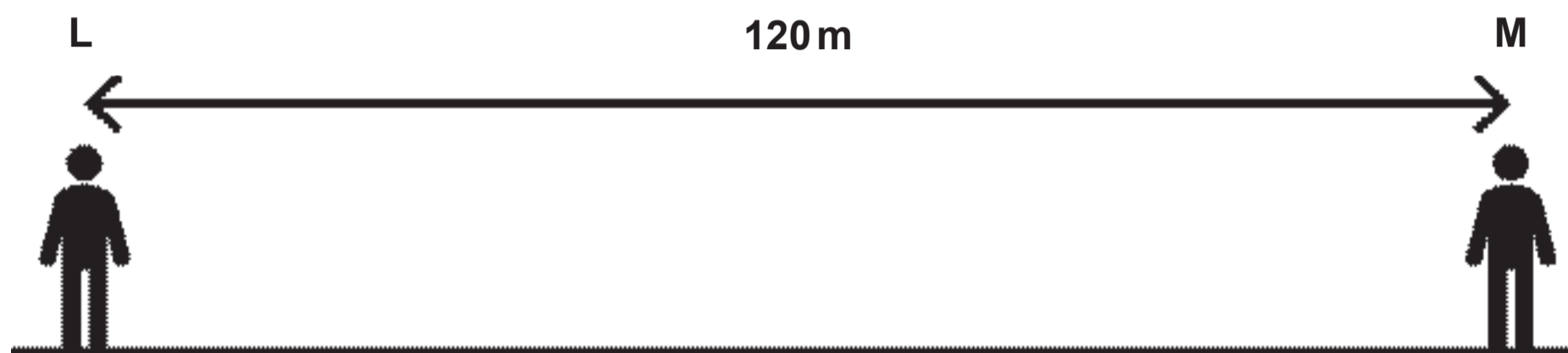
type of radiation	typical wavelength
gamma rays	$1.0 \times 10^{-12} \text{ m}$
X-rays	$3.0 \times 10^{-11} \text{ m}$
ultraviolet	200 nm
visible	600 nm
infrared	$4.0 \text{ }\mu\text{m}$
microwaves	1.0 mm
radio waves	50 m

FIGURE 8



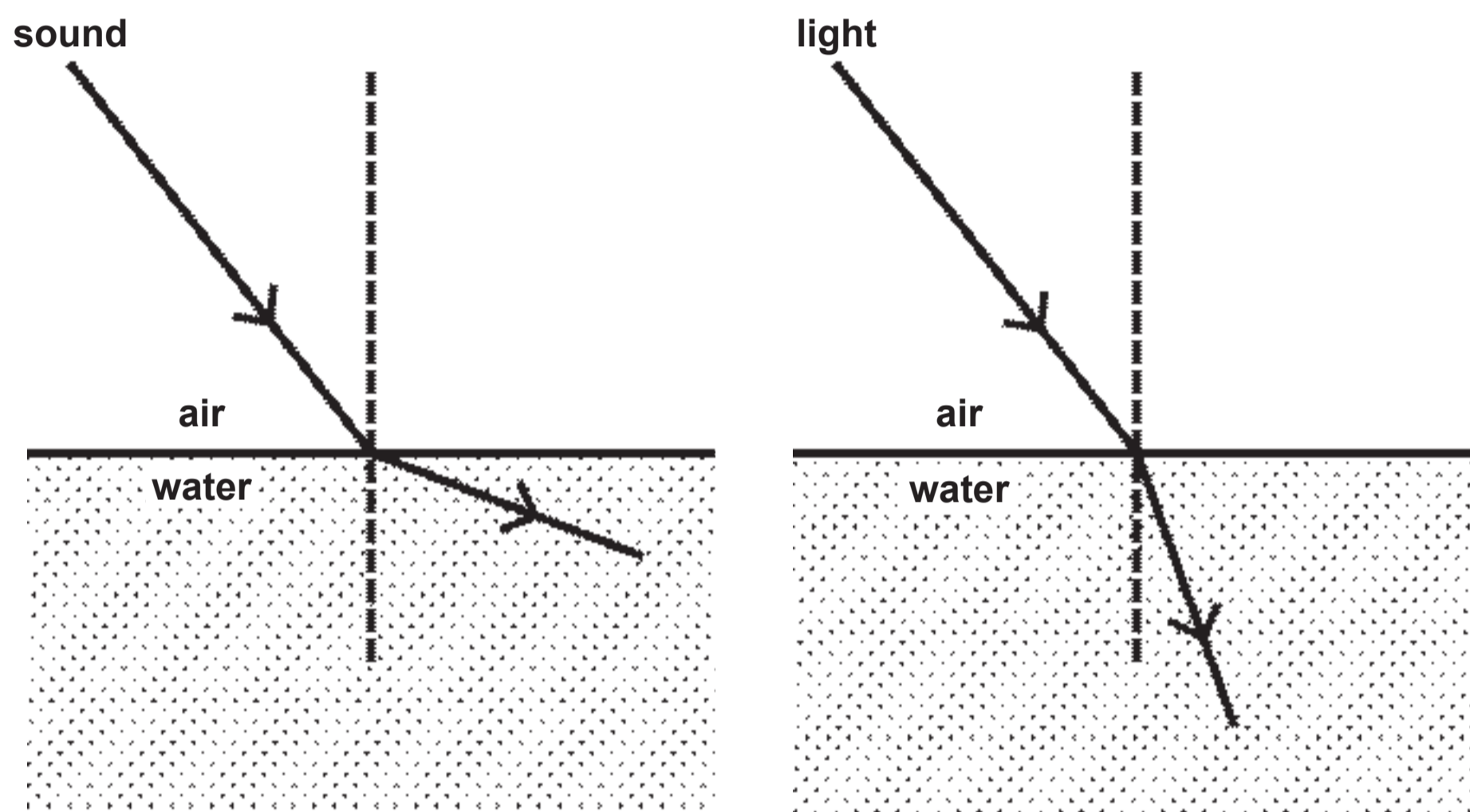
Question 6(a)

FIGURE 9



Question 6(b)

FIGURE 10



Question 7(a)**FIGURE 11**

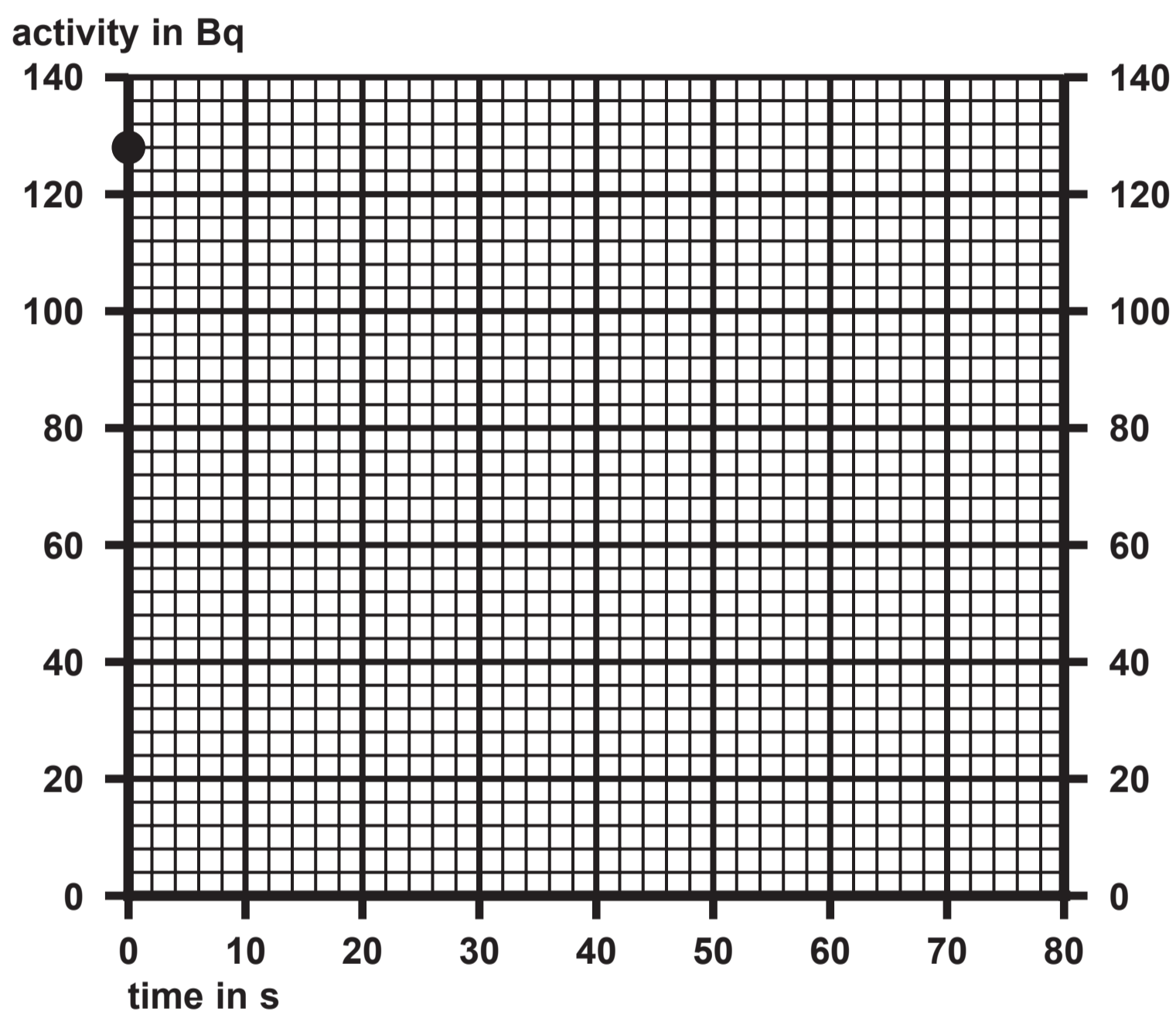
Question 7(a)(iii)

FIGURE 12



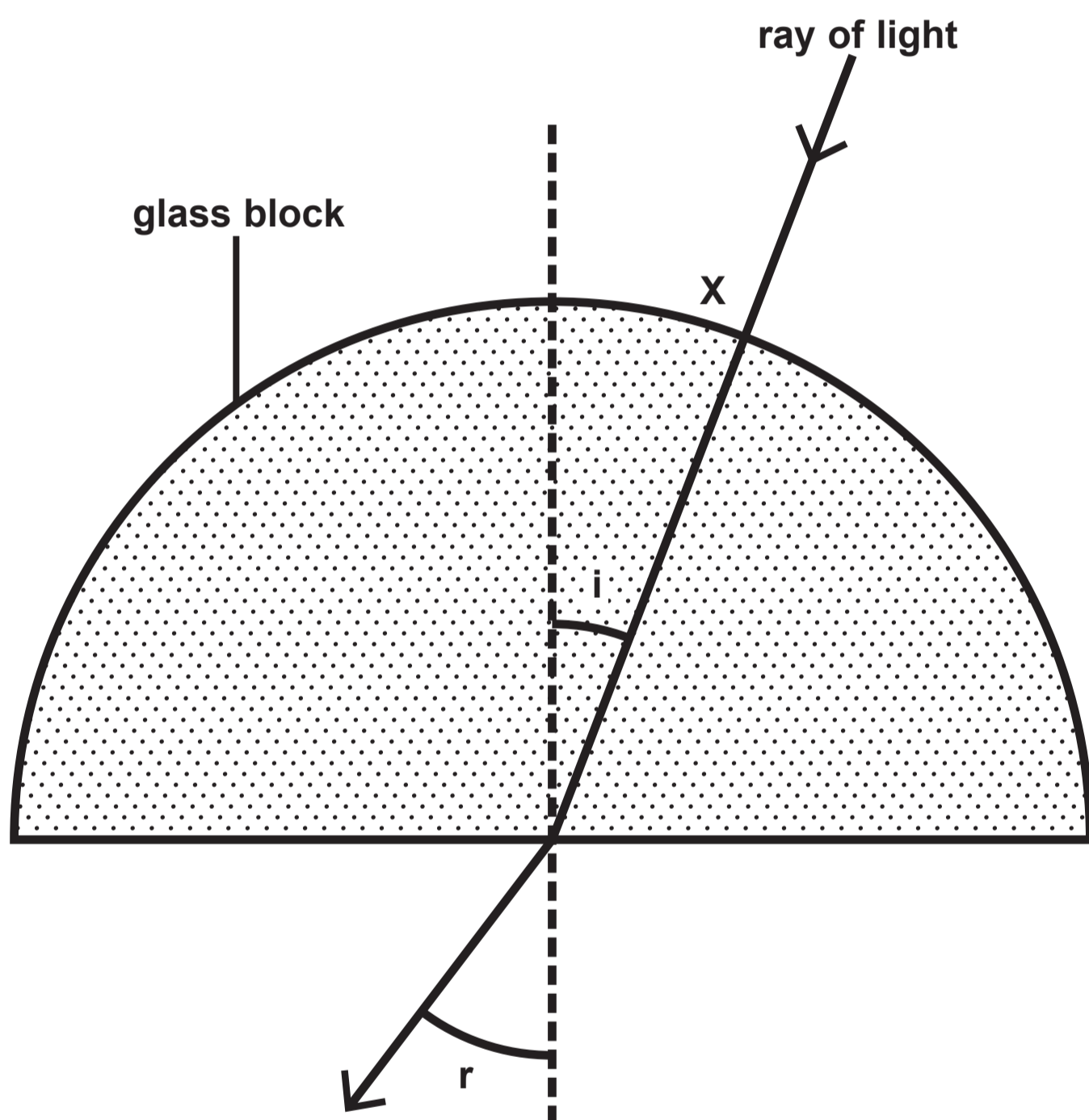
Question 7(b)

FIGURE 13



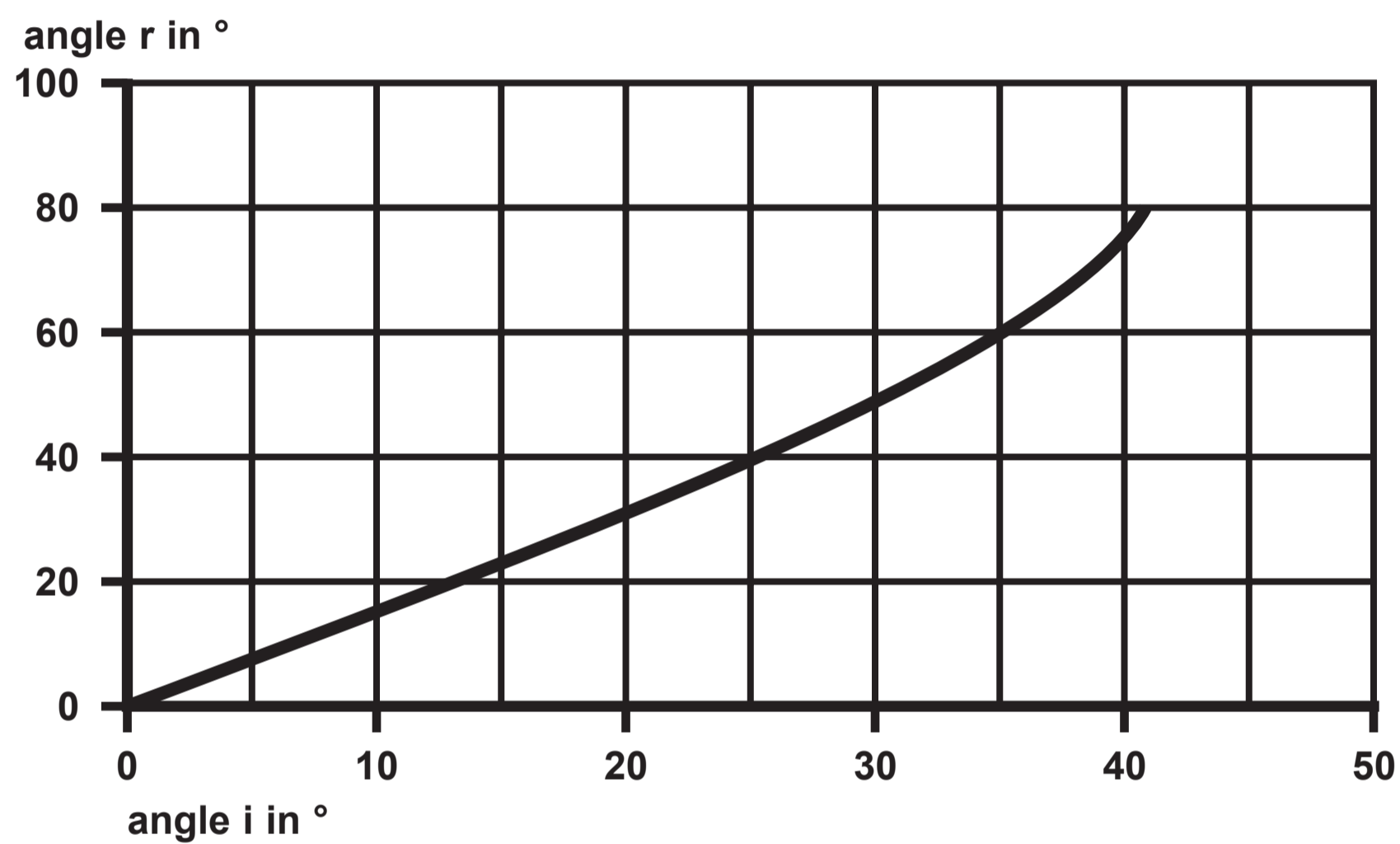
Question 8(a)(i)

FIGURE 14



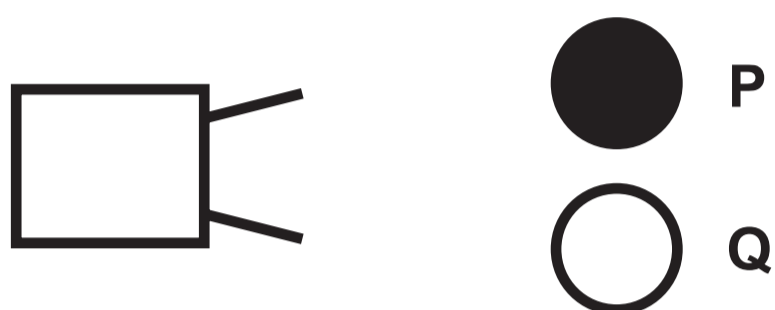
Question 8(a)(ii)

FIGURE 15



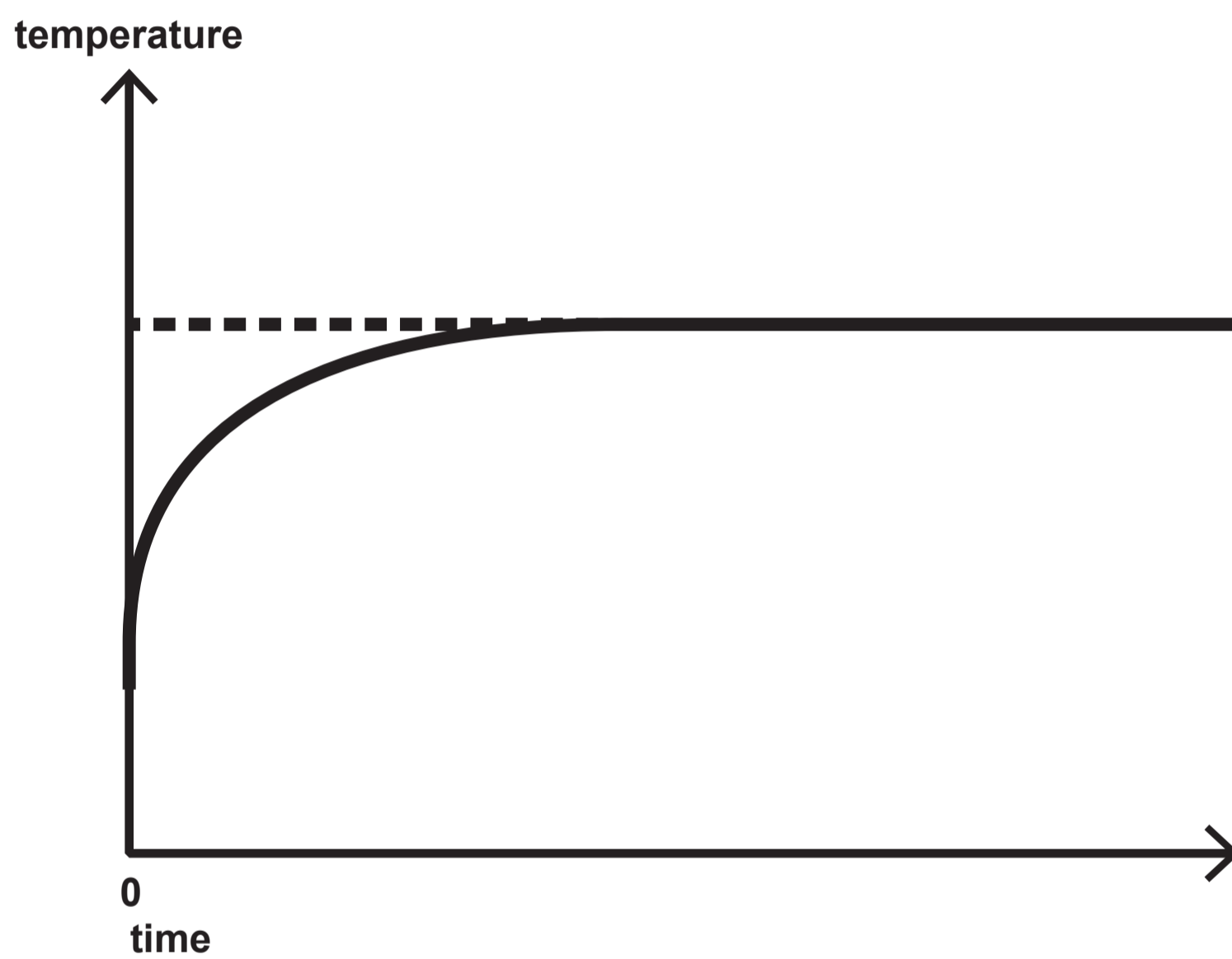
Question 8(b)(i)

FIGURE 16



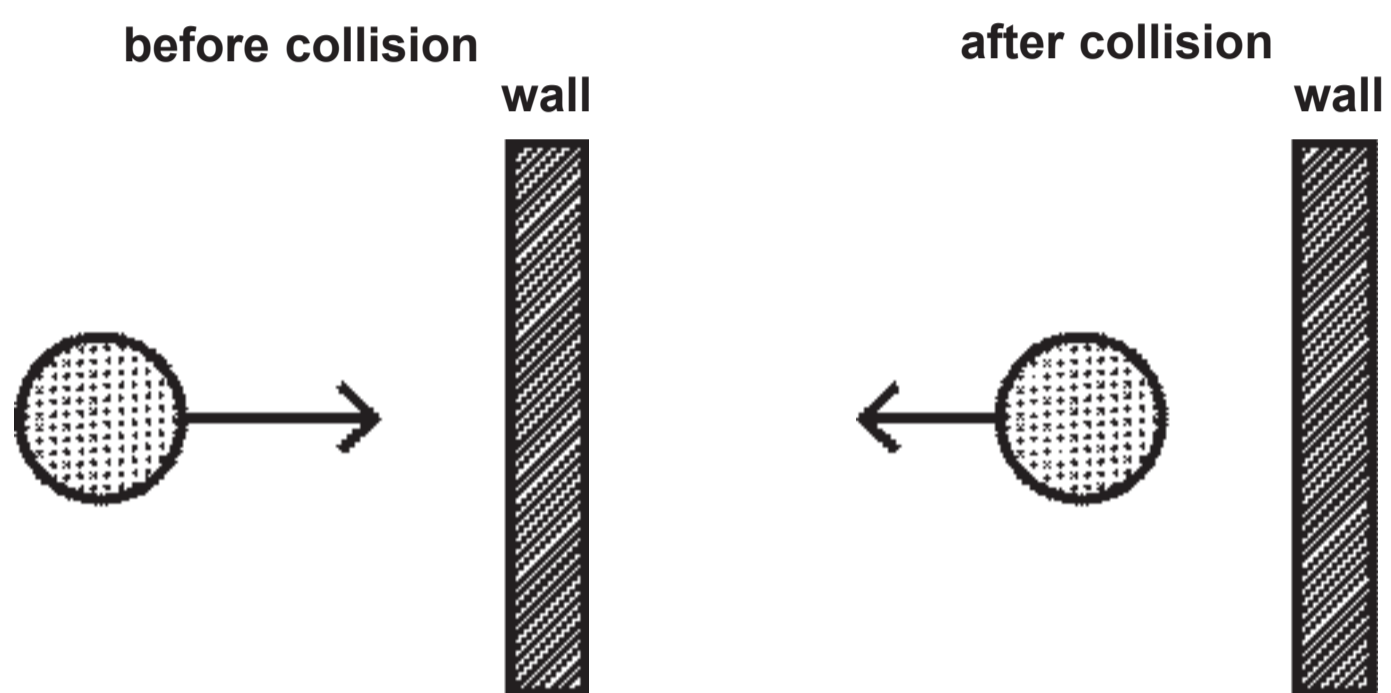
Question 8(b)(ii)

FIGURE 17



Question 9(b)

FIGURE 18



Question 9(c)

FIGURE 19

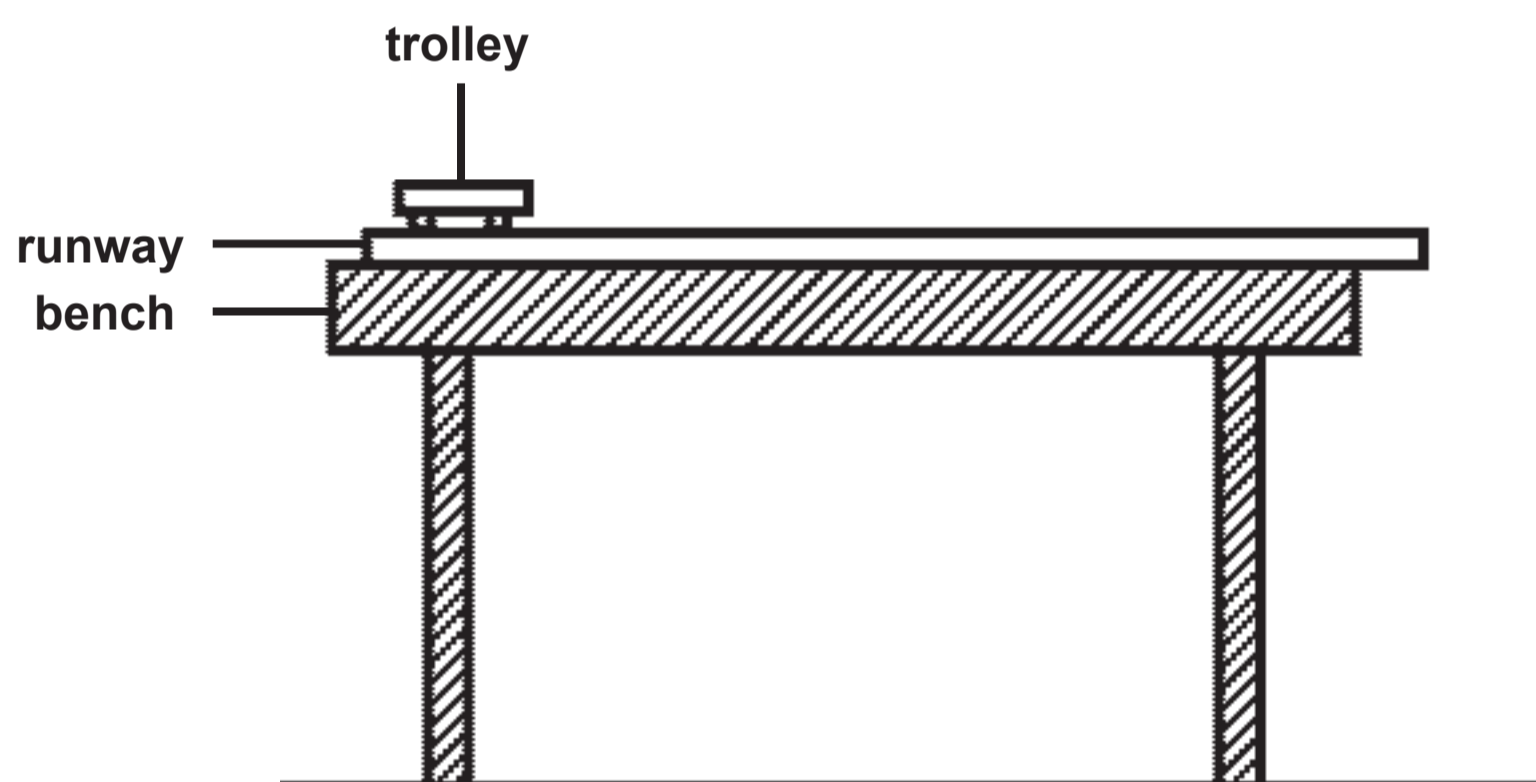


FIGURE 20

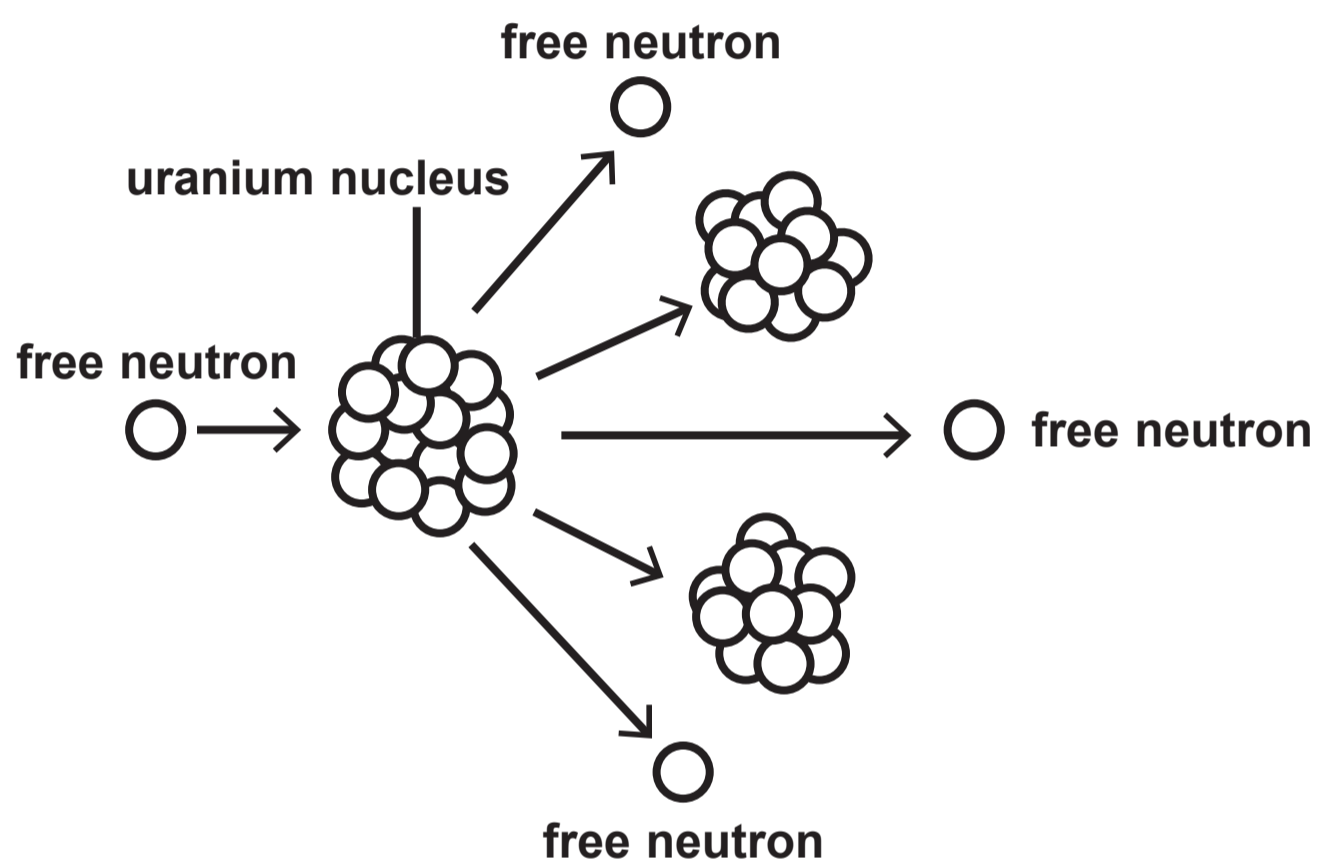
The black and white photograph shows a 6-wheeled vehicle carrying navigation equipment and solar panels across the rocky surface of Mars.



Question 10(b)

FIGURE 21

NUCLEAR FISSION



Question 2(b)(iii)

FIGURE 4

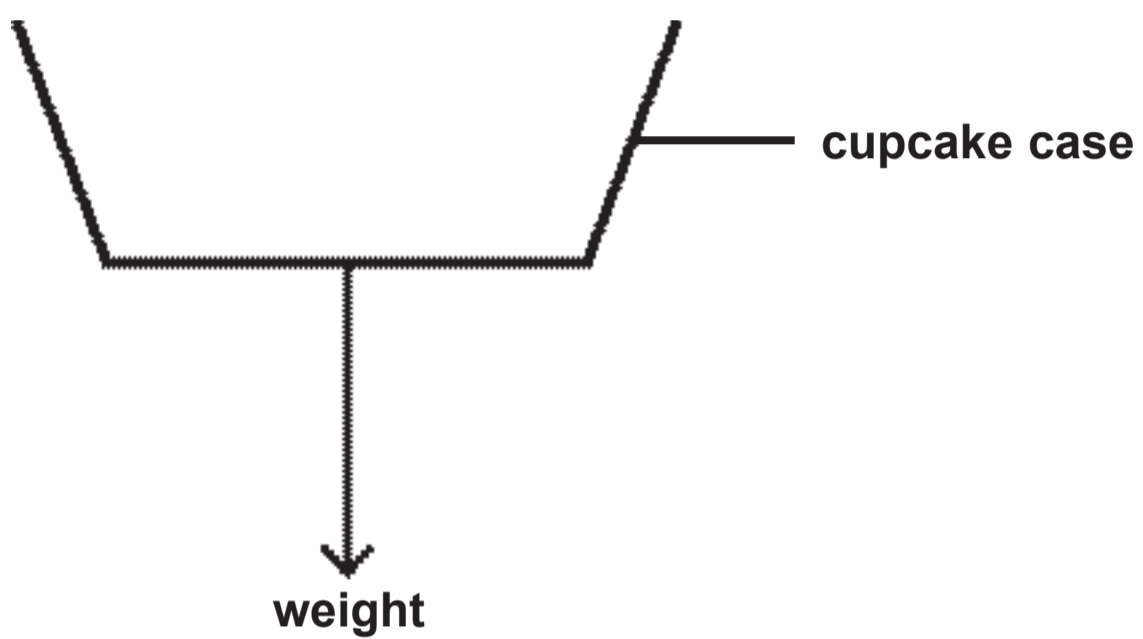
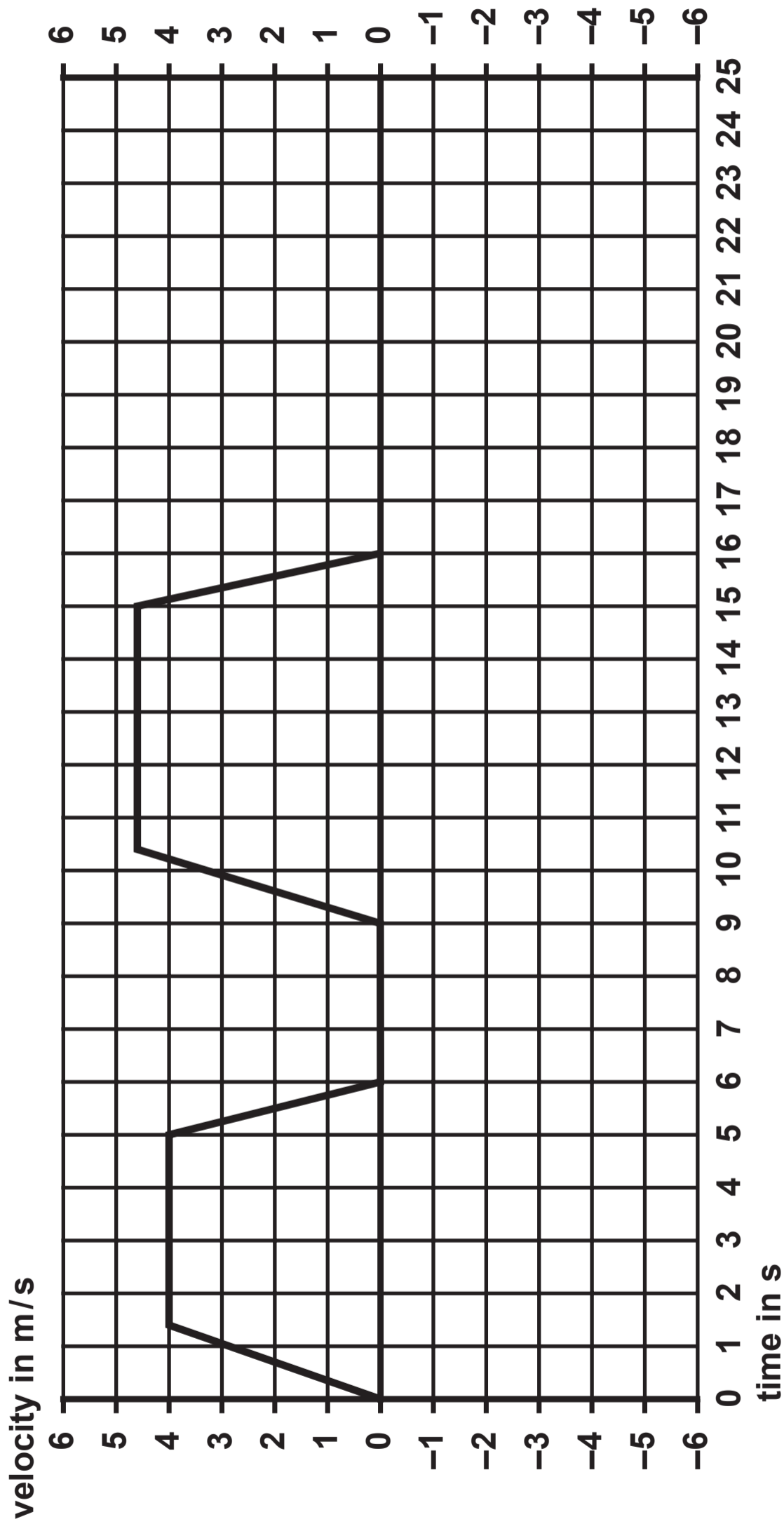


FIGURE 8



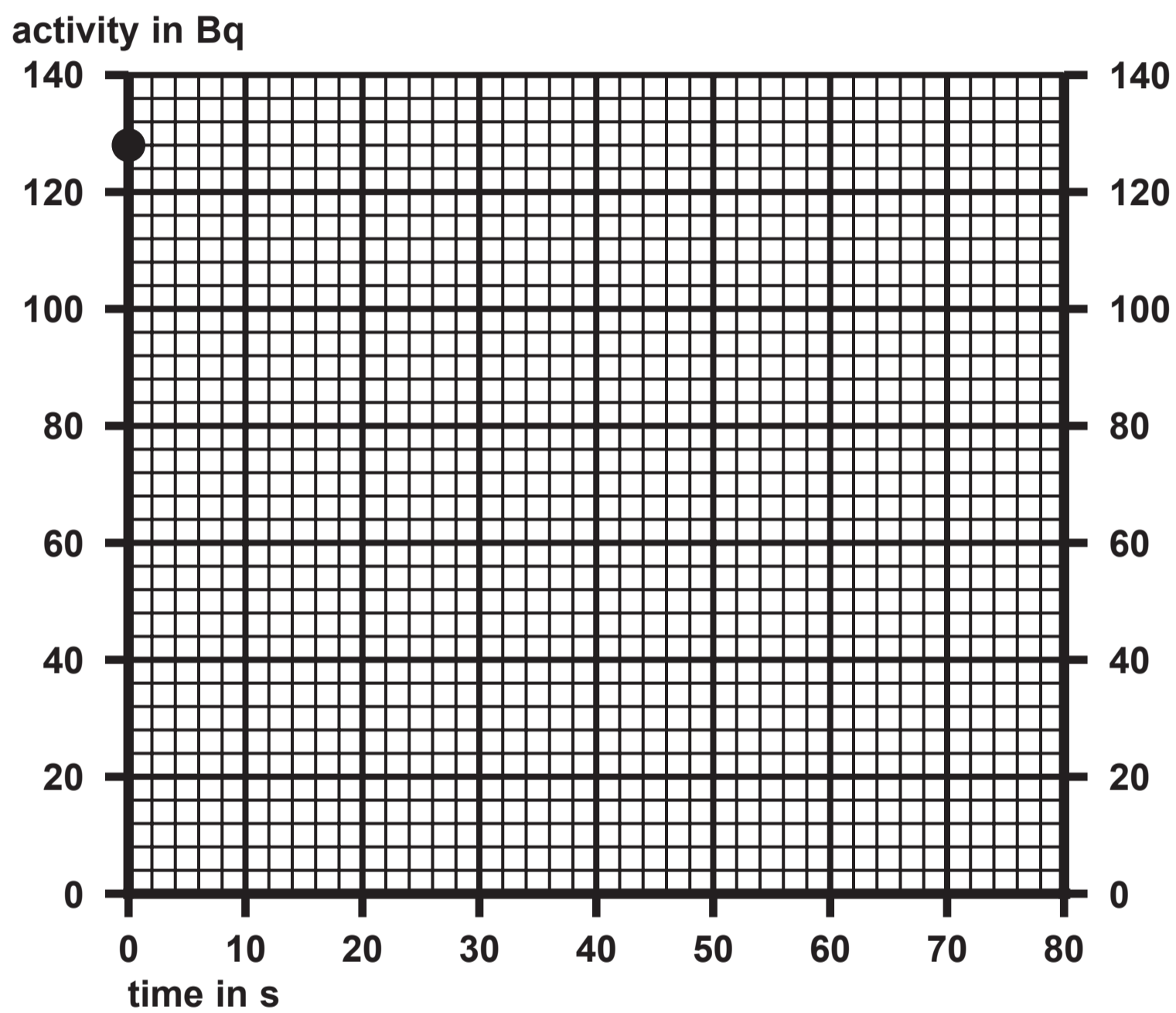
Question 7(a)(iii)

FIGURE 12



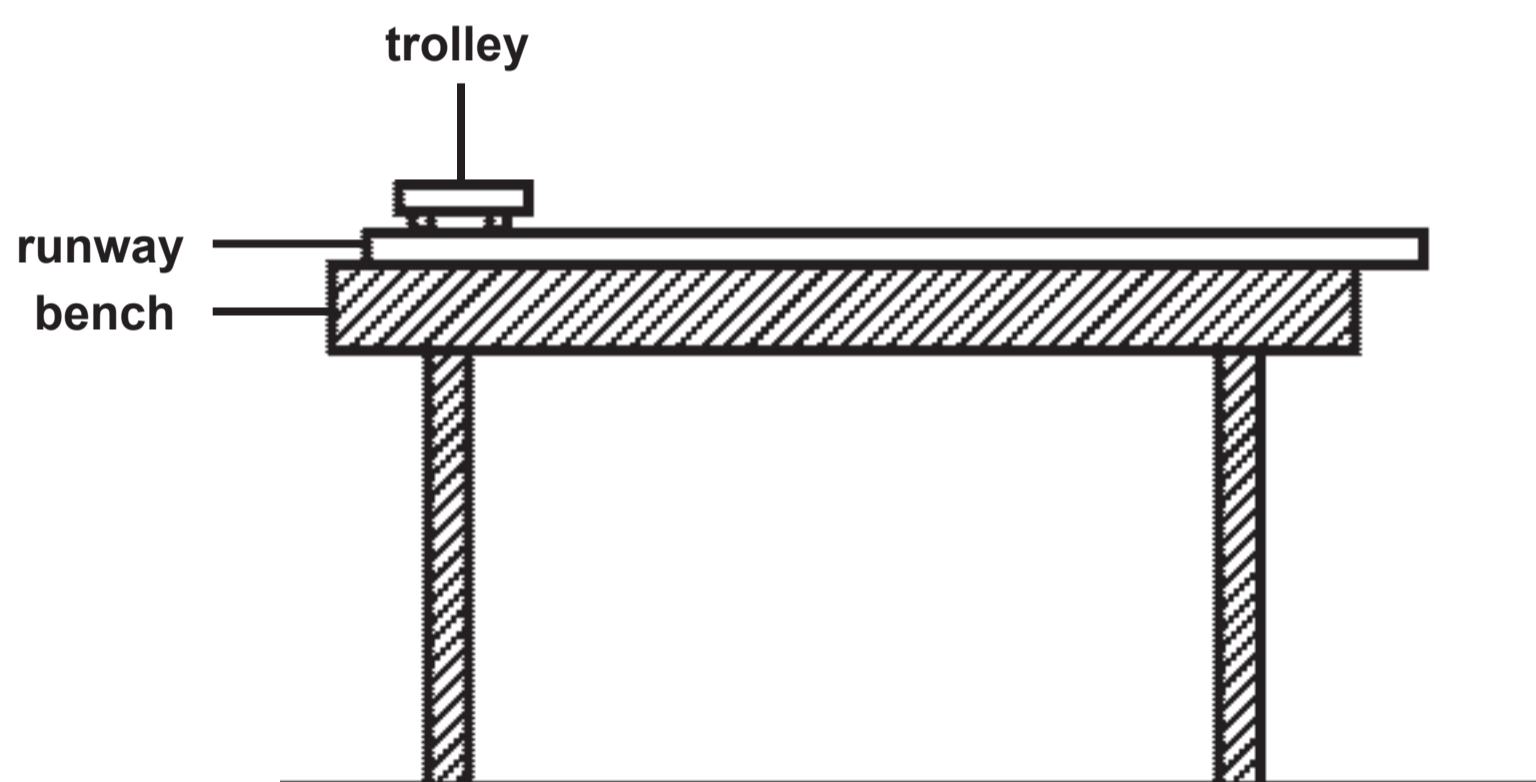
Question 7(b)

FIGURE 13



Question 9(c)

FIGURE 19



Question 2(b)

(Source: adapted from © Anton Starikov/Shutterstock)

(Source: adapted from © Elena Schweitzer/Shutterstock)

Question 10(a)

(Source: © BEST-BACKGROUNDS/Shutterstock)

Question 10(b)

(Source: adapted from © 1501926062/Shutterstock)