

Physics  
PAPER 1  
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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## Question 1(a)

Diagram A

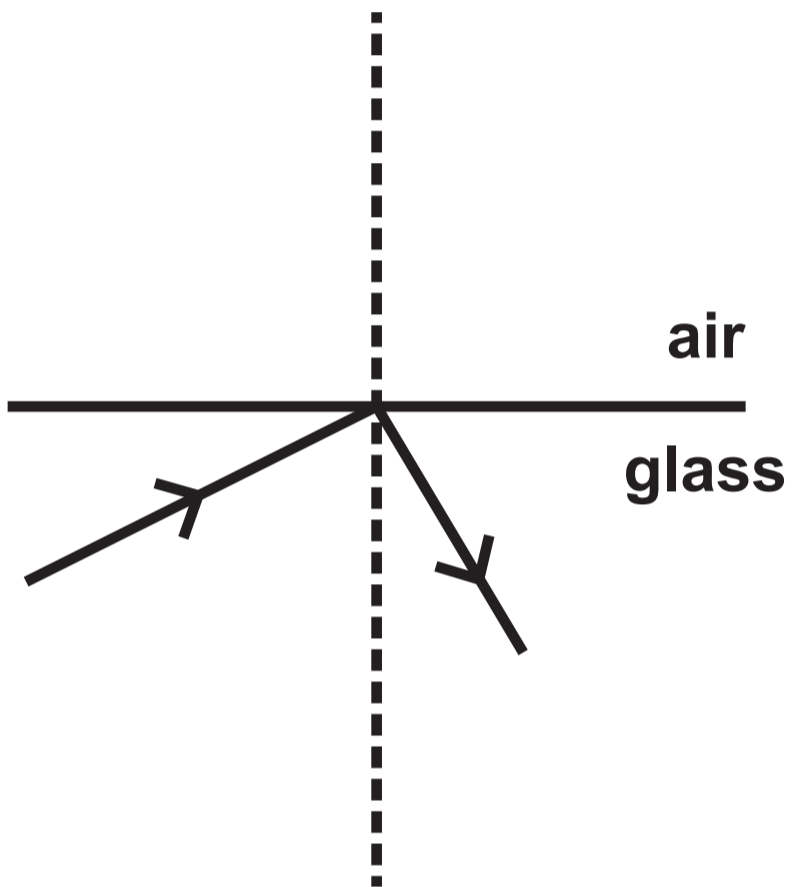


Diagram B

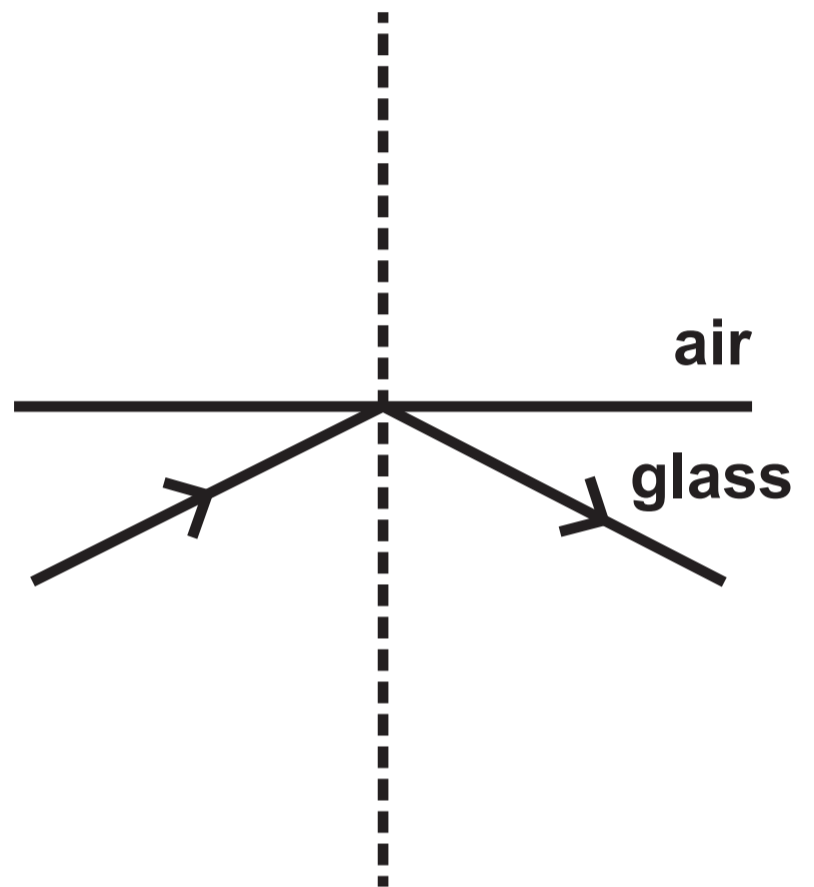


Diagram C

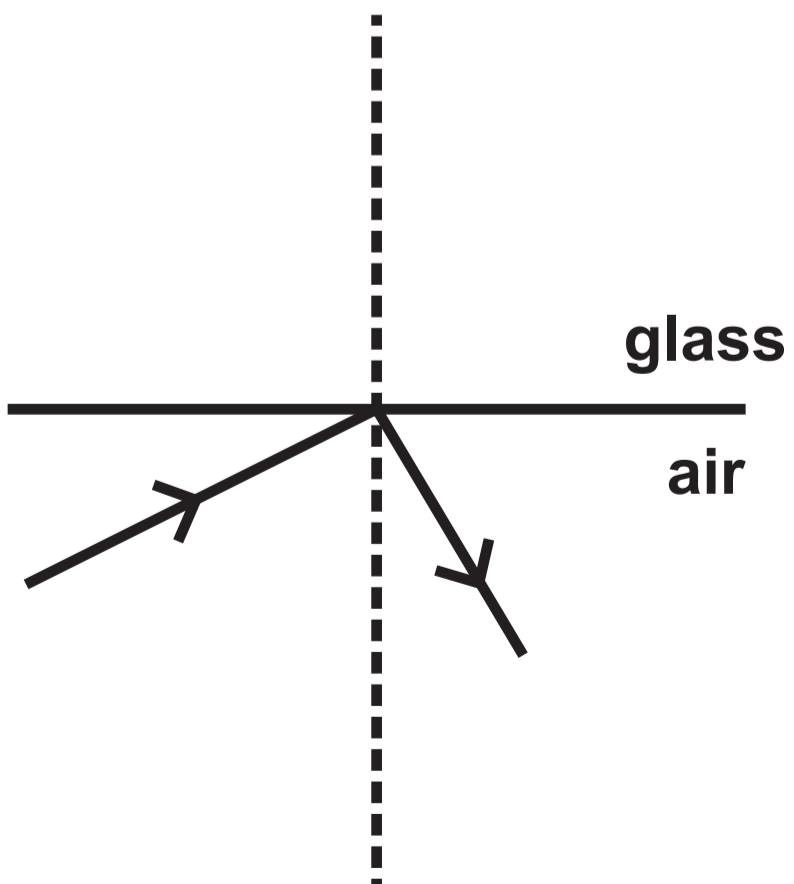
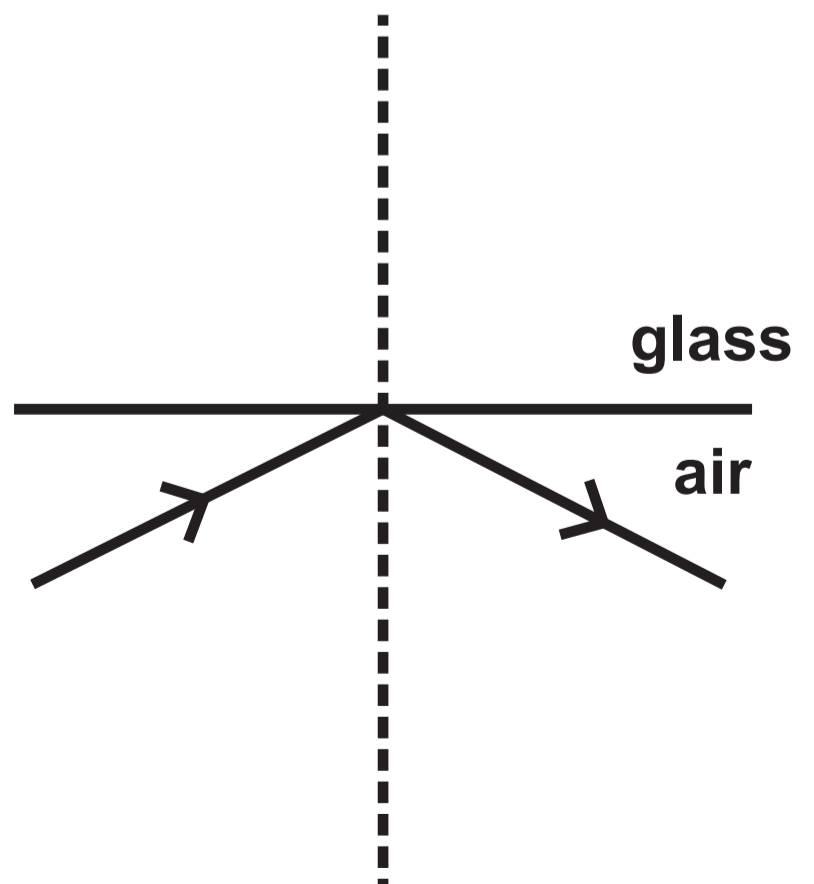
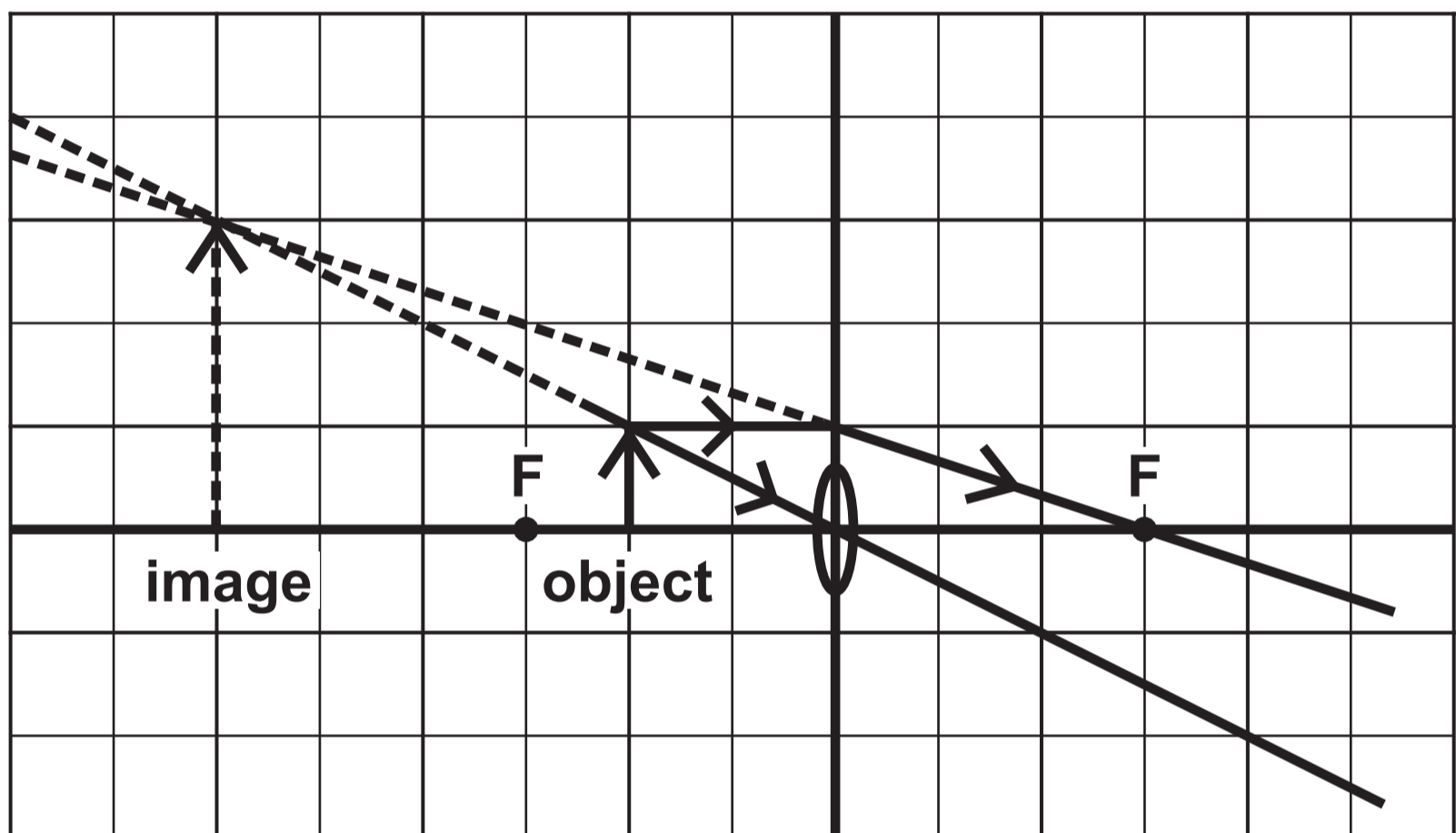


Diagram D



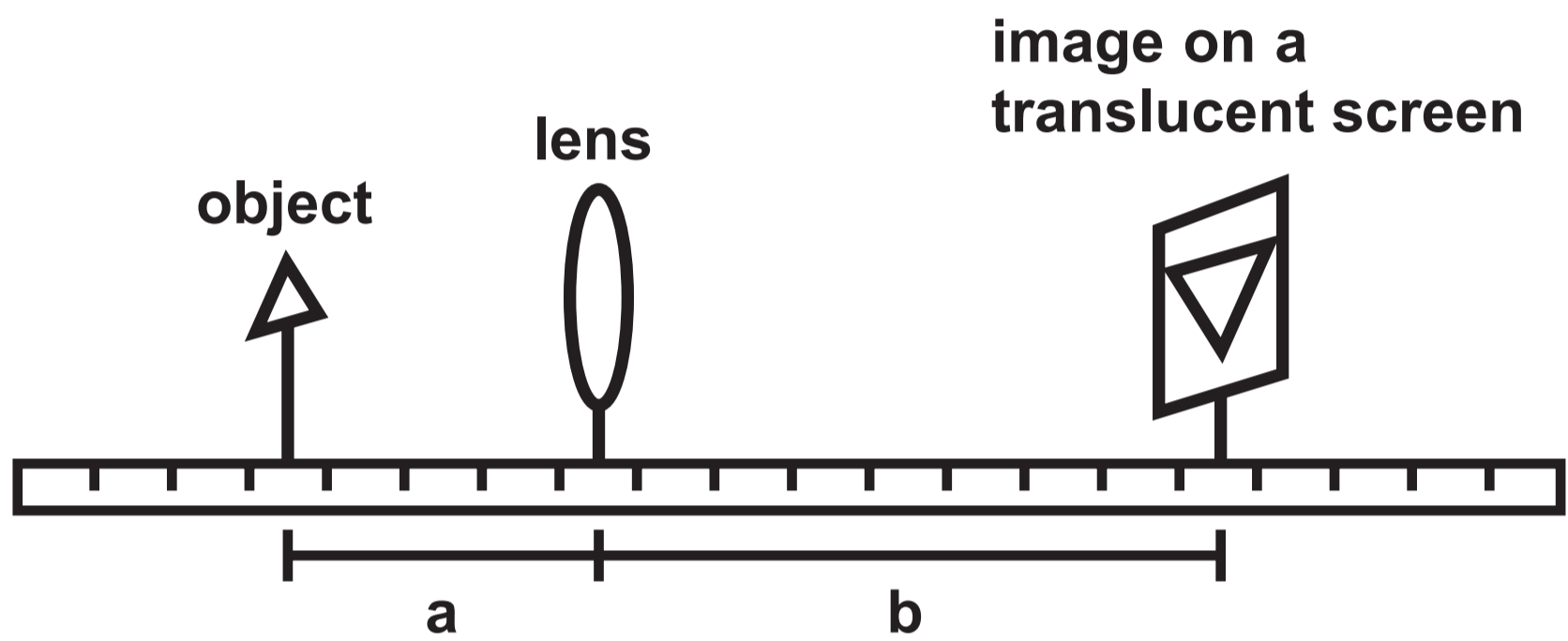
## Question 1(b)

FIGURE 1



## Question 1(c)

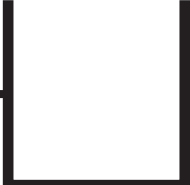
FIGURE 2



## Question 2(b)

FIGURE 3

small copper can — 

large copper can — 

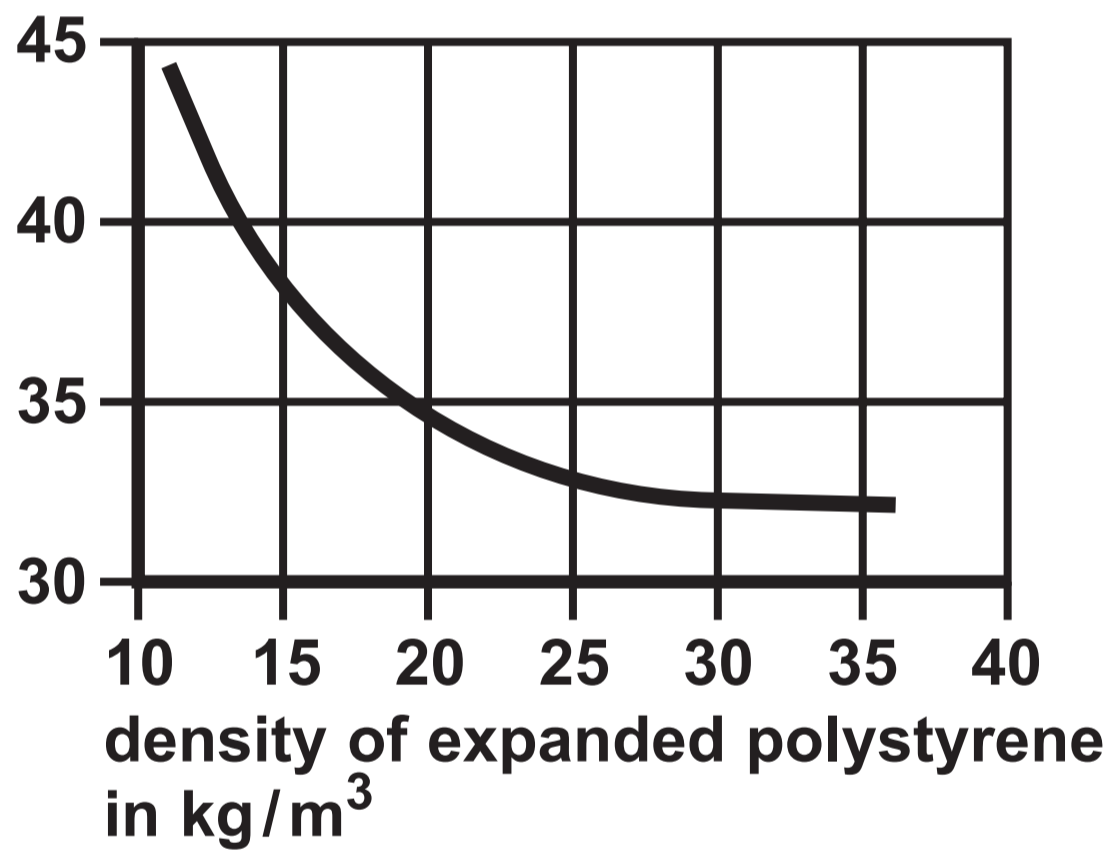
sand — 

sawdust — 

## Question 2(c)

FIGURE 4

thermal conductivity of  
expanded polystyrene  
in mW/m.K



## Question 3(a)

FIGURE 5

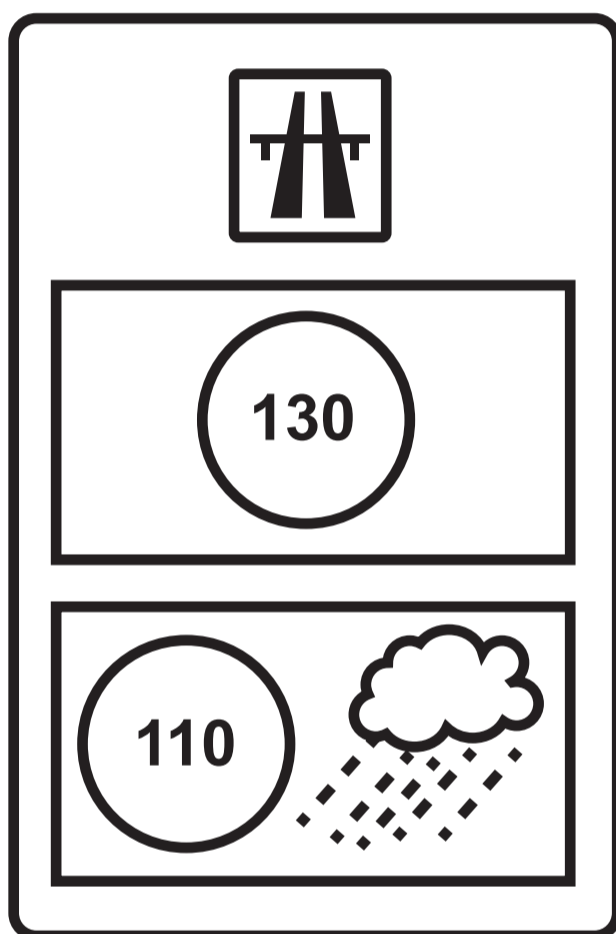
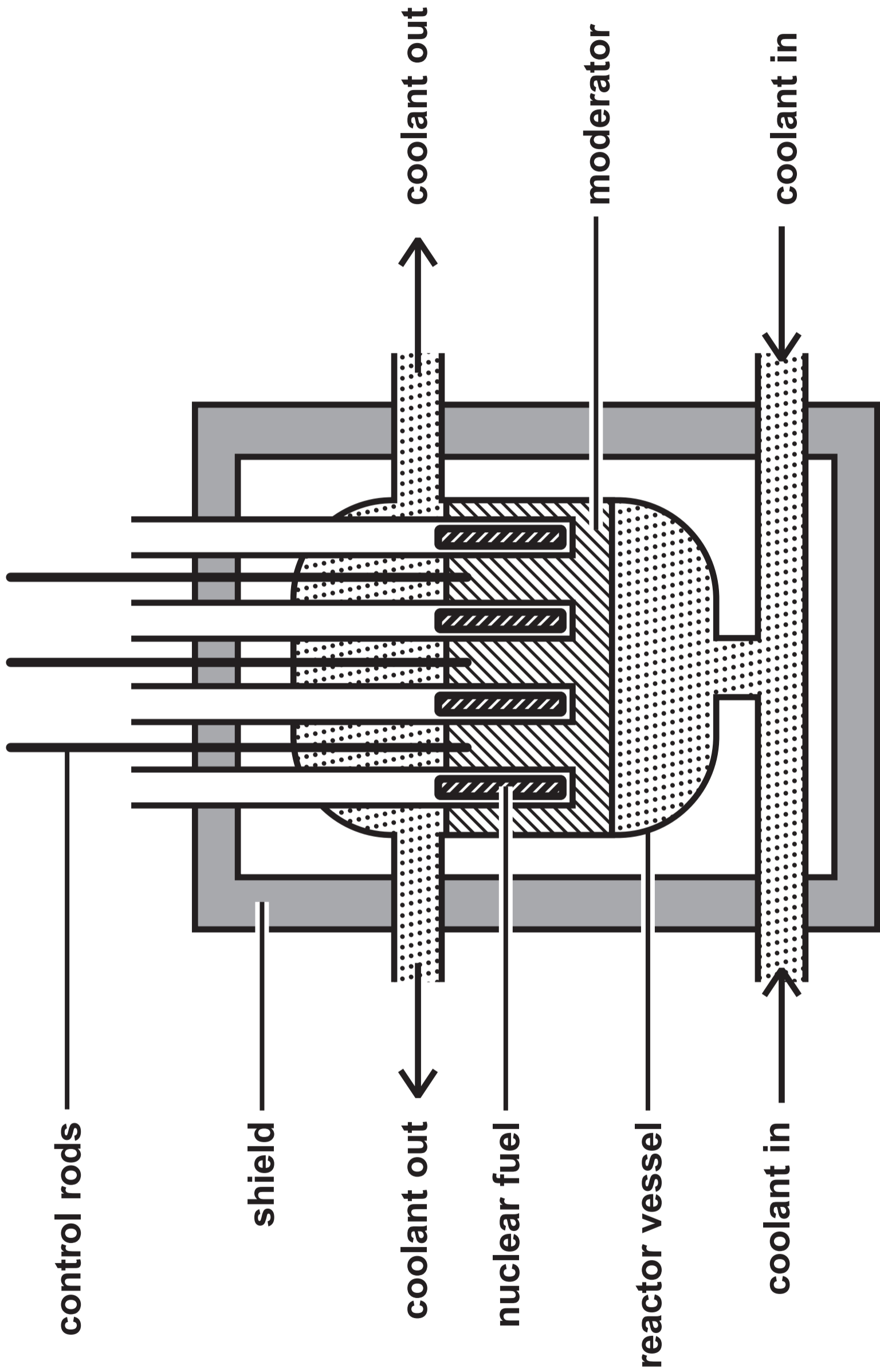


FIGURE 6



Question 6(b)

FIGURE 7

Key

| line of hydrogen spectrum

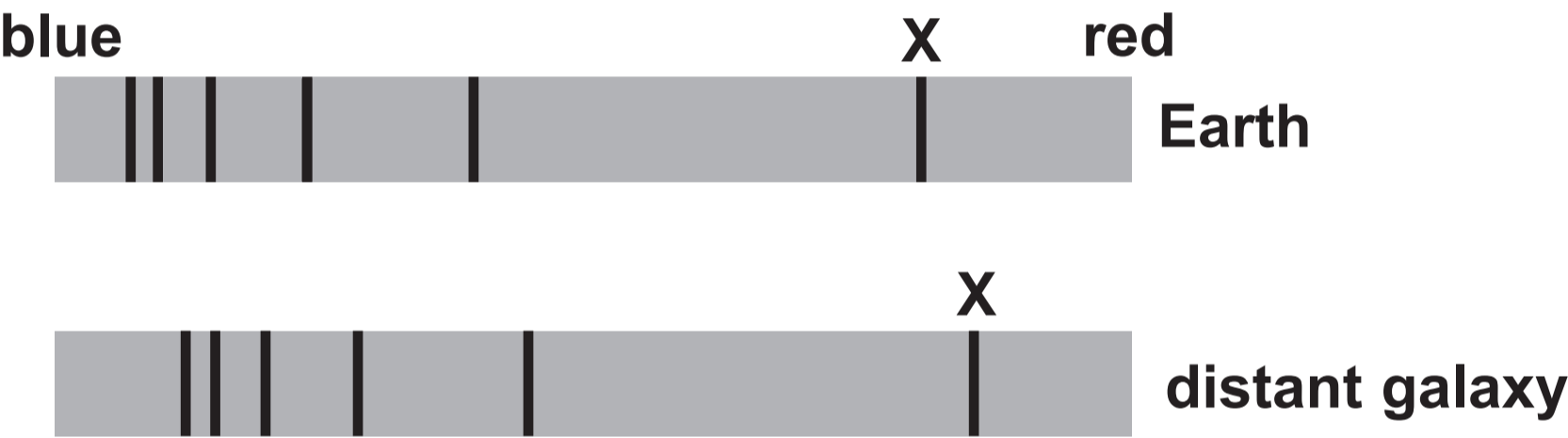


FIGURE 8

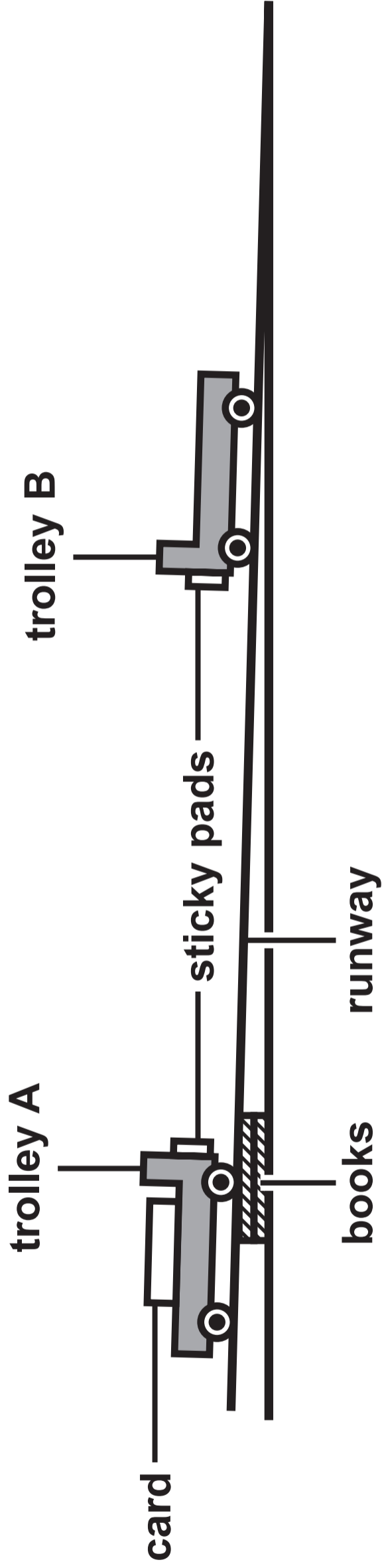


FIGURE 8

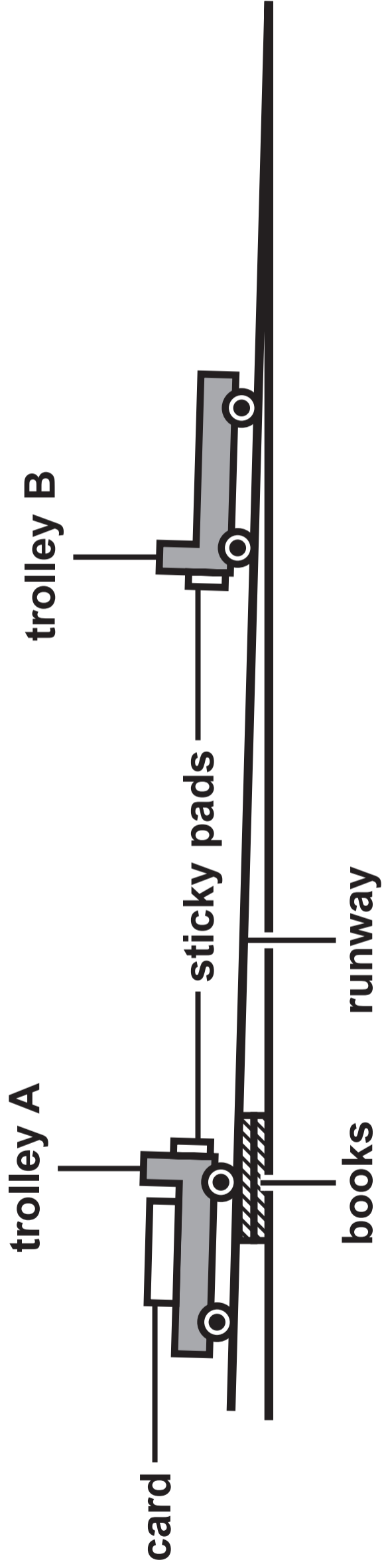


FIGURE 9

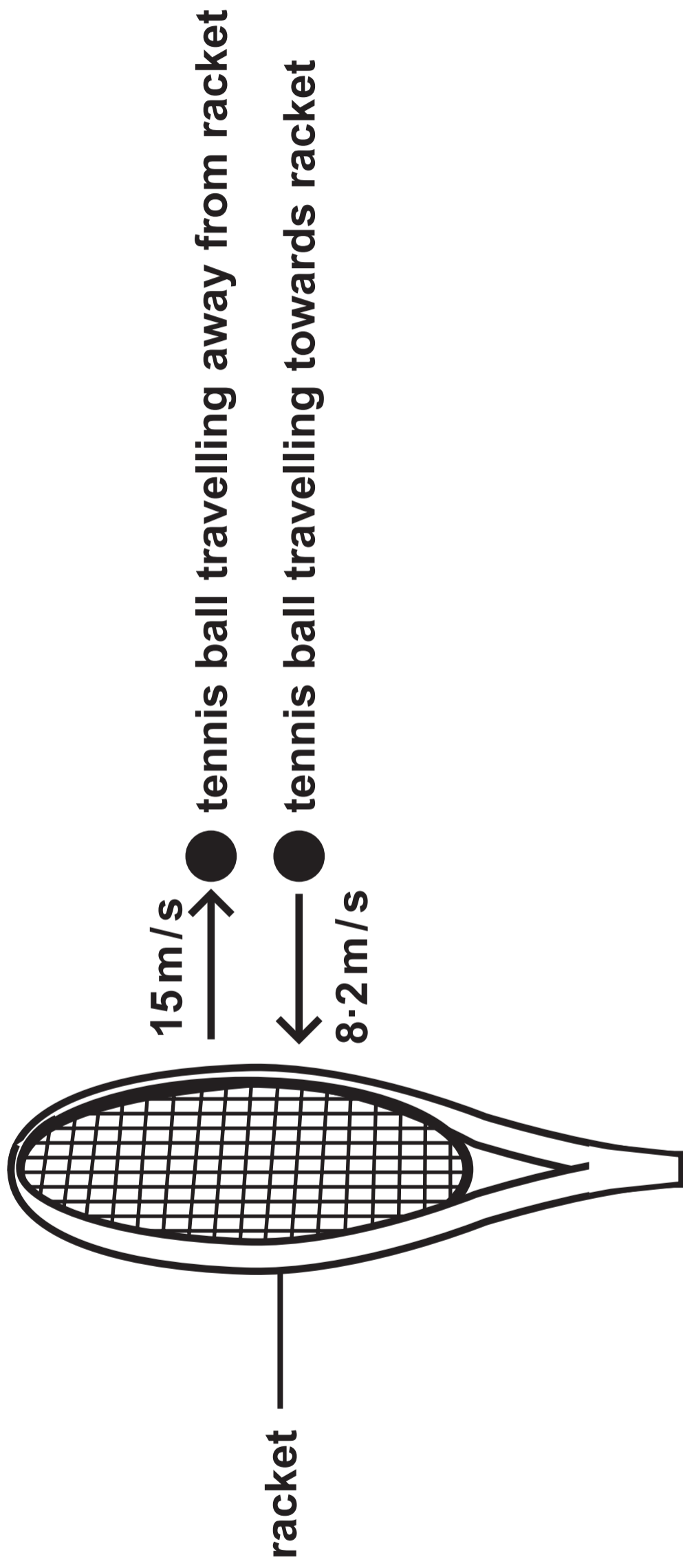
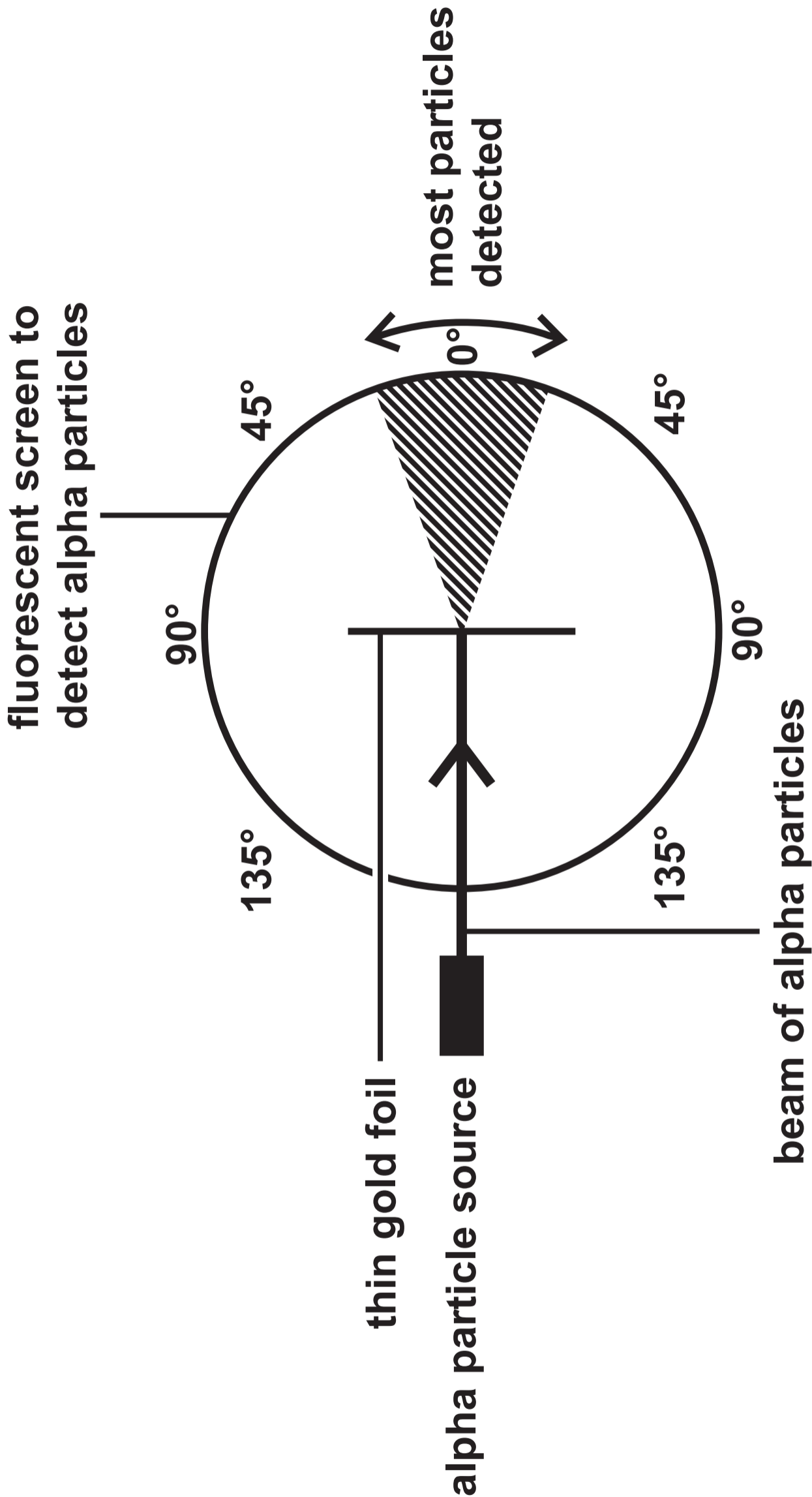


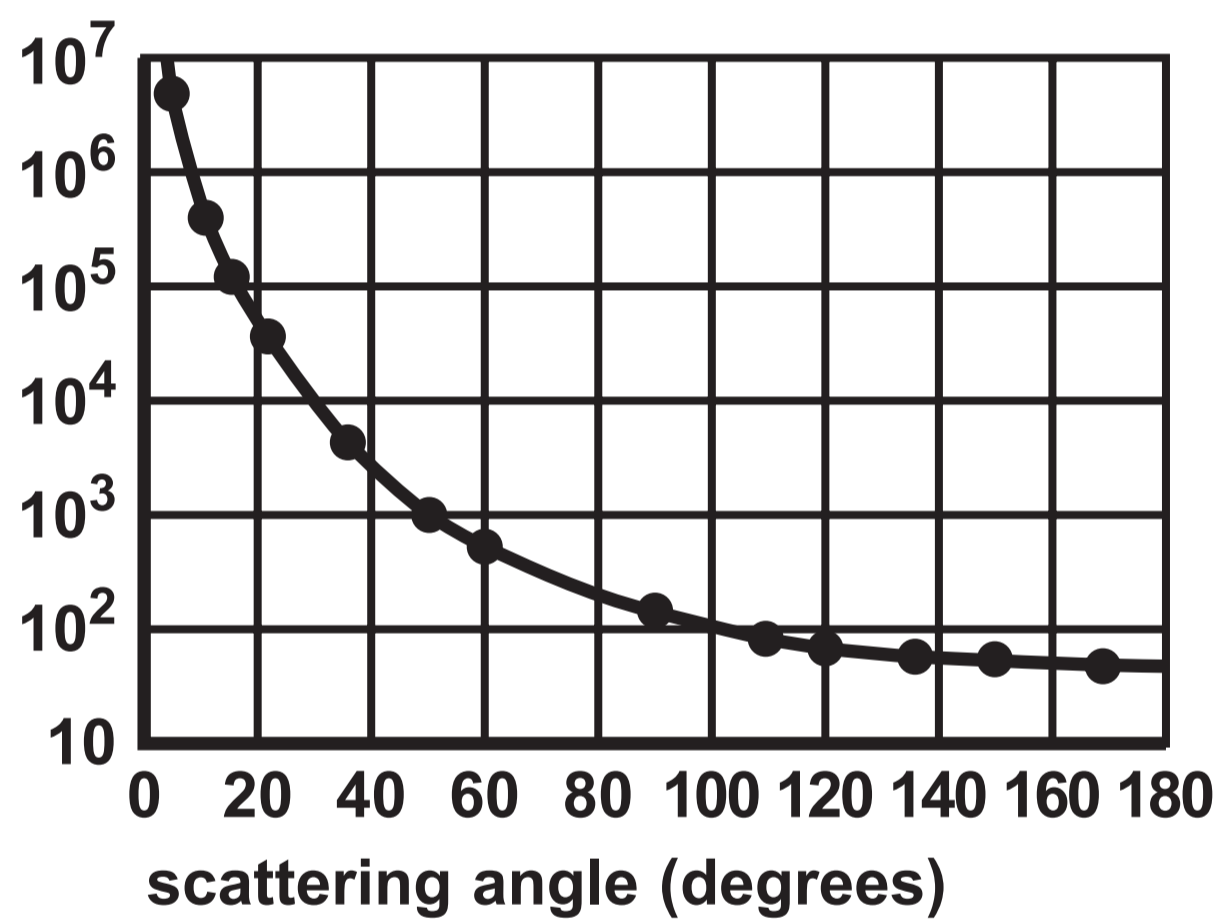
FIGURE 10



## Question 8(b)(i)

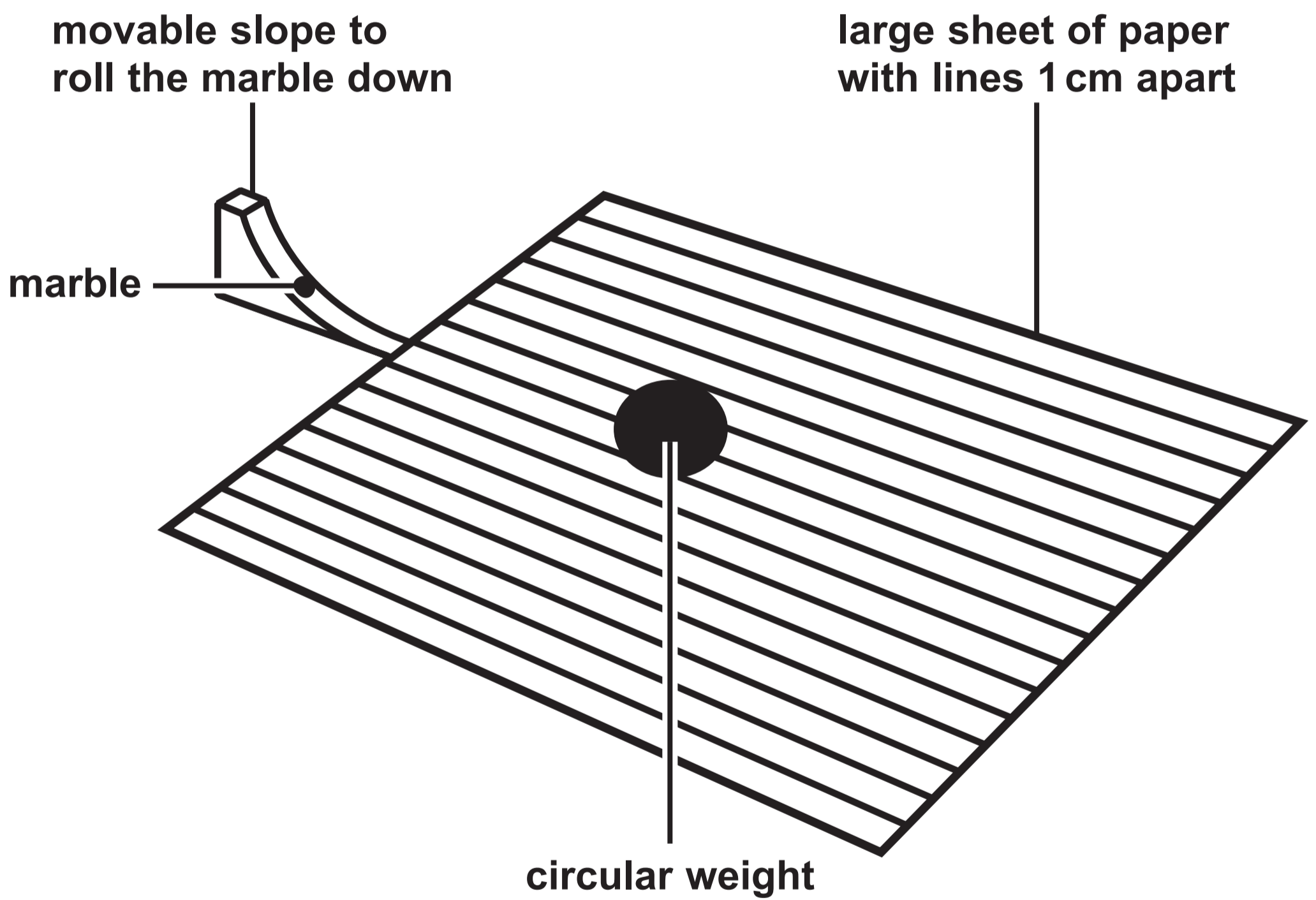
FIGURE 11

number of scattered  
particles detected



## Question 8(c)

FIGURE 12



Question 10(b)

FIGURE 13A

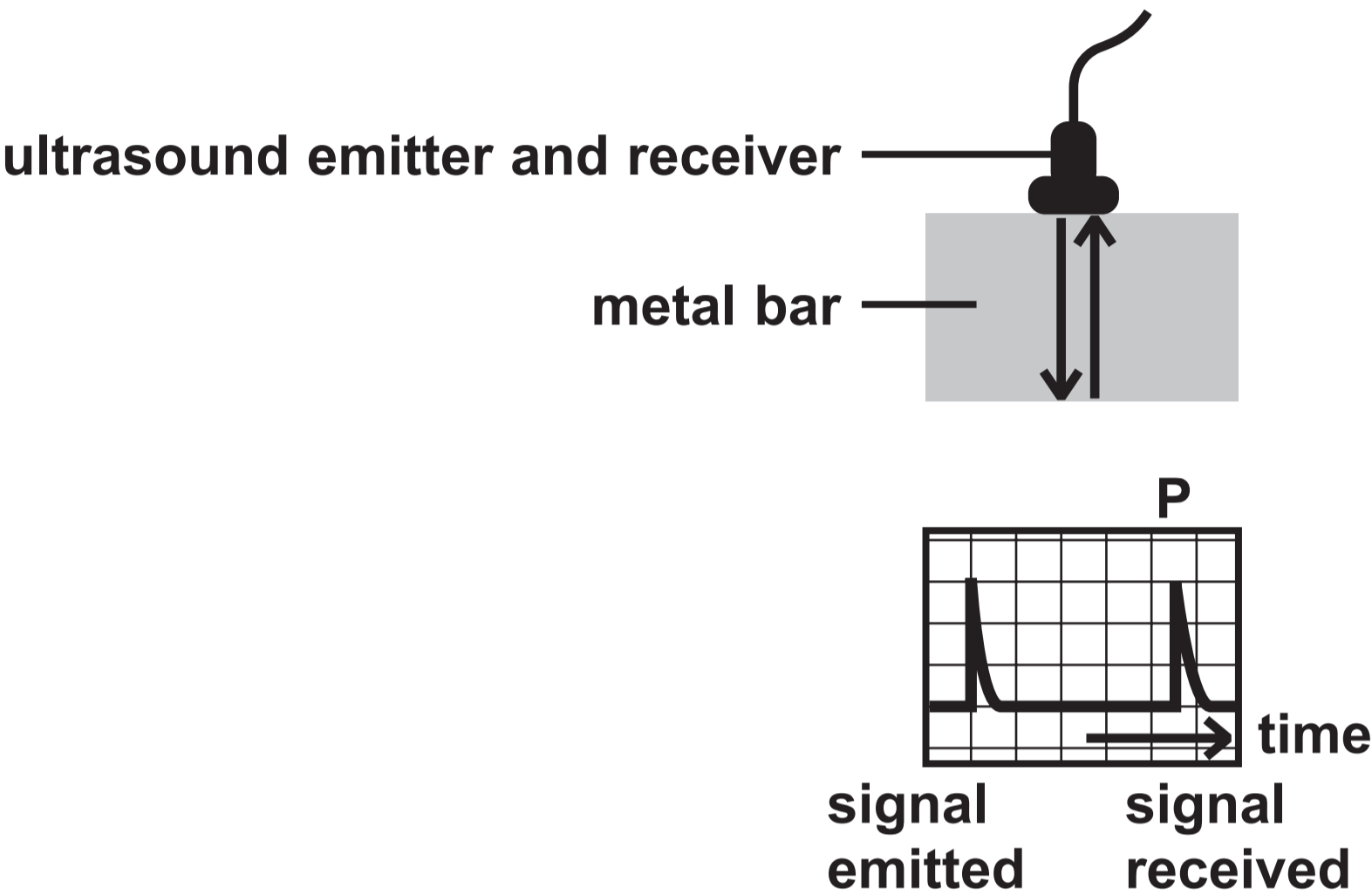
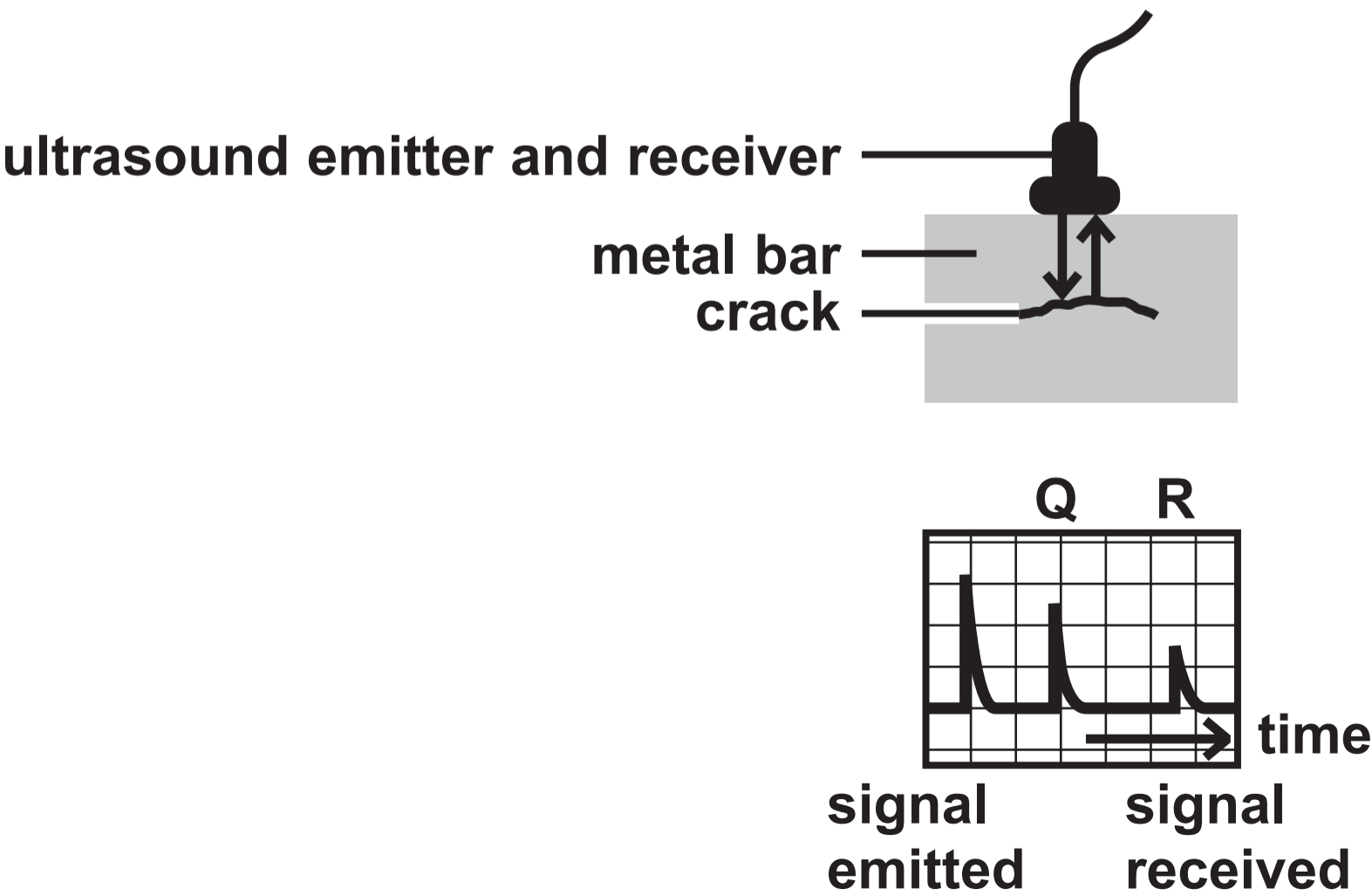


FIGURE 13B



Question 10(c)

FIGURE 14

S waves	P waves
transverse	longitudinal
slow moving	fast moving
travel through solids	travel through liquids and solids

FIGURE 15

