

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

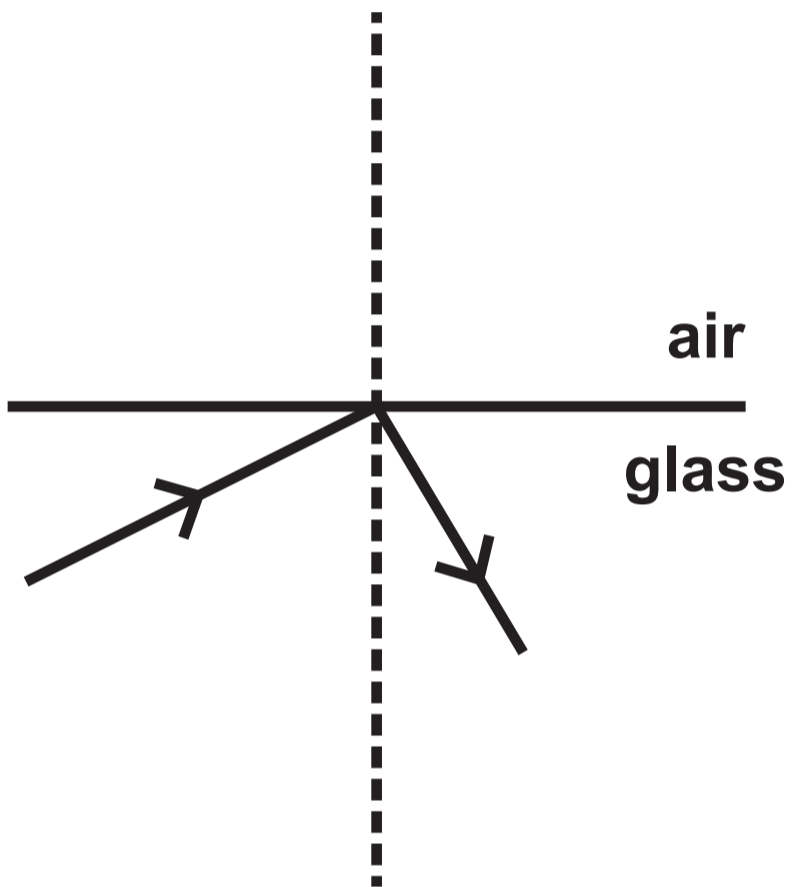


Diagram B

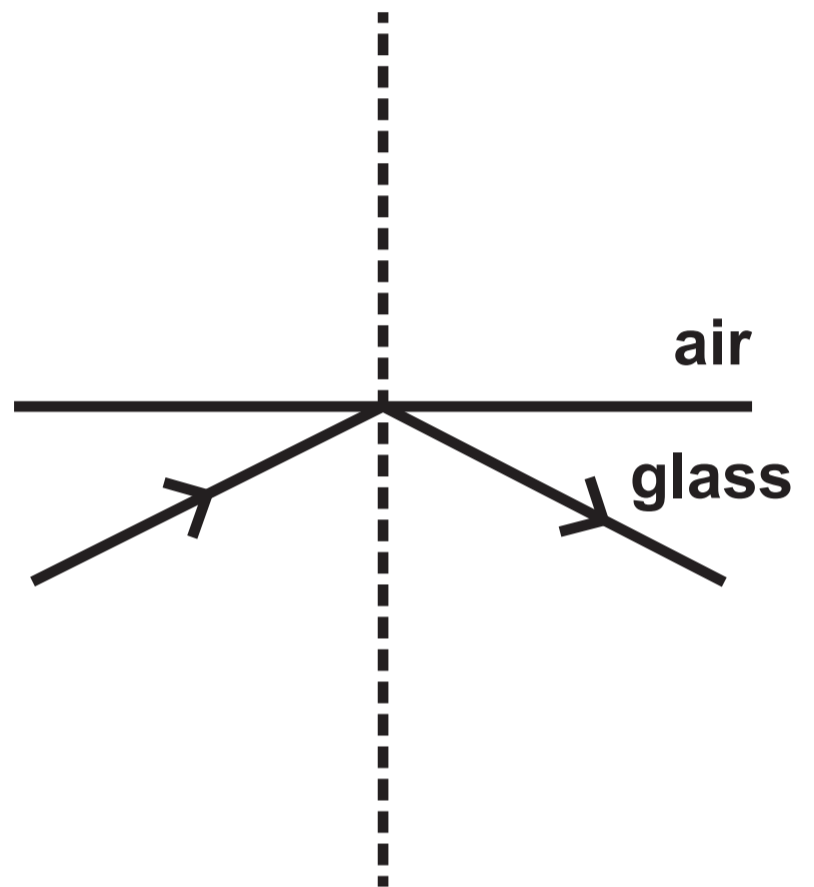


Diagram C

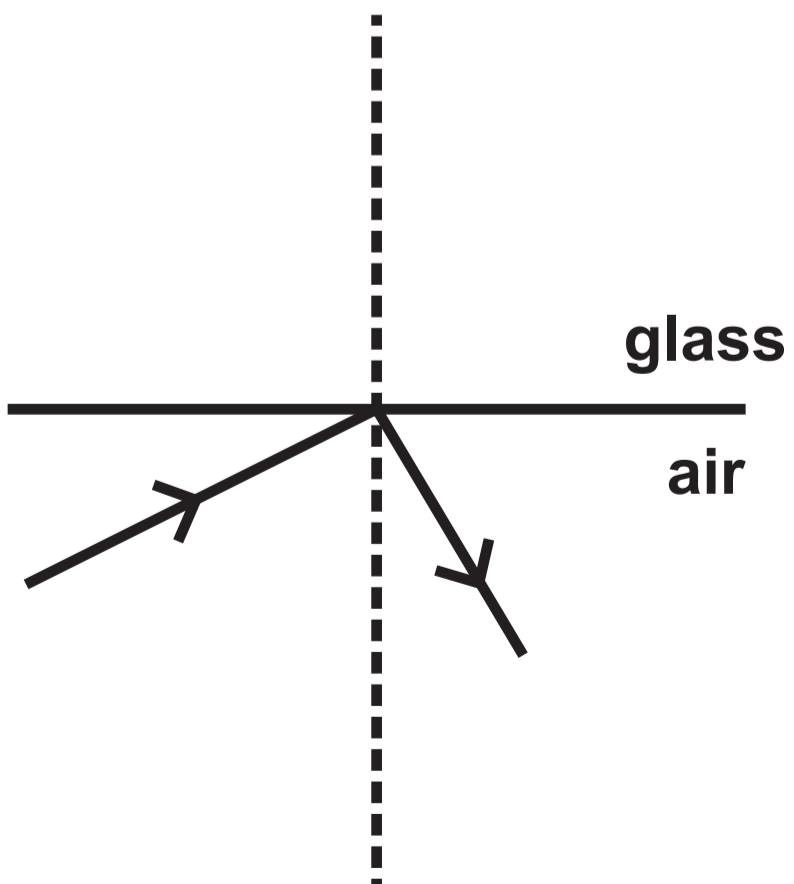
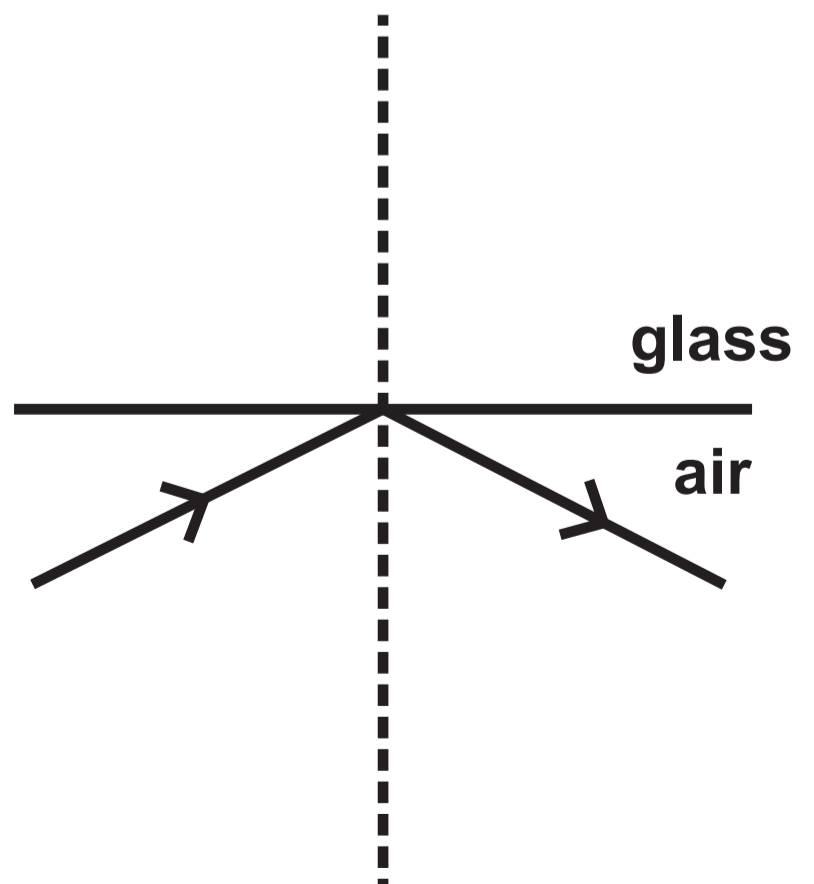
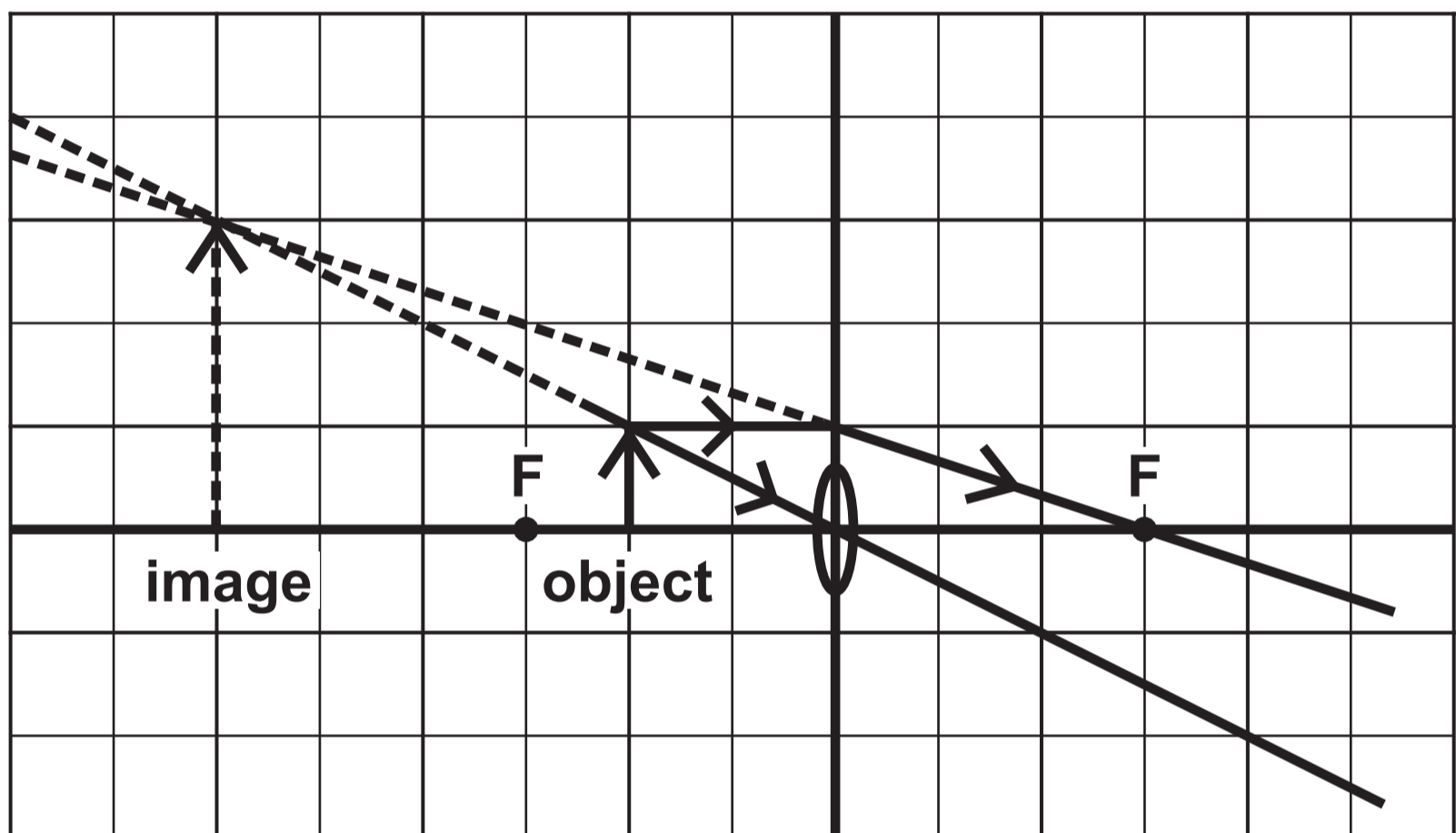


Diagram D



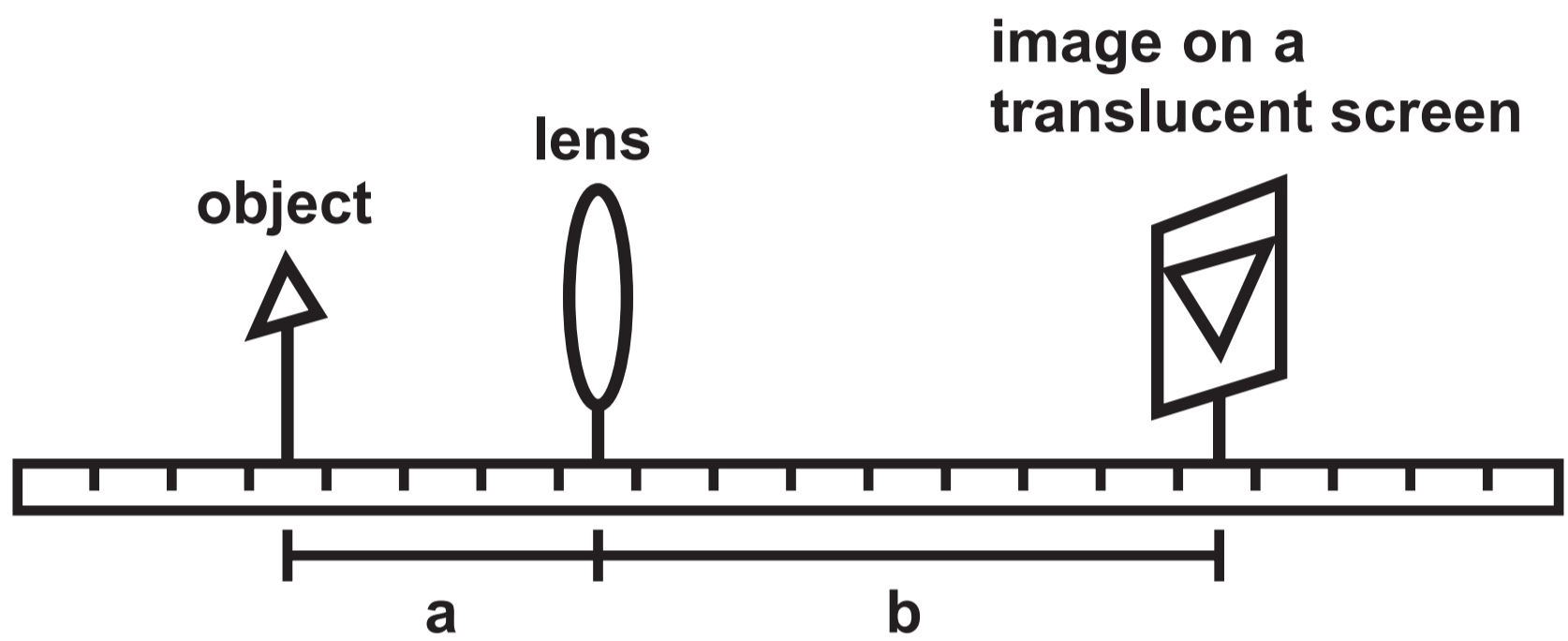
Question 1(b)

FIGURE 1



Question 1(c)


FIGURE 2



Question 2(b)

FIGURE 3

small copper can — 

large copper can — 

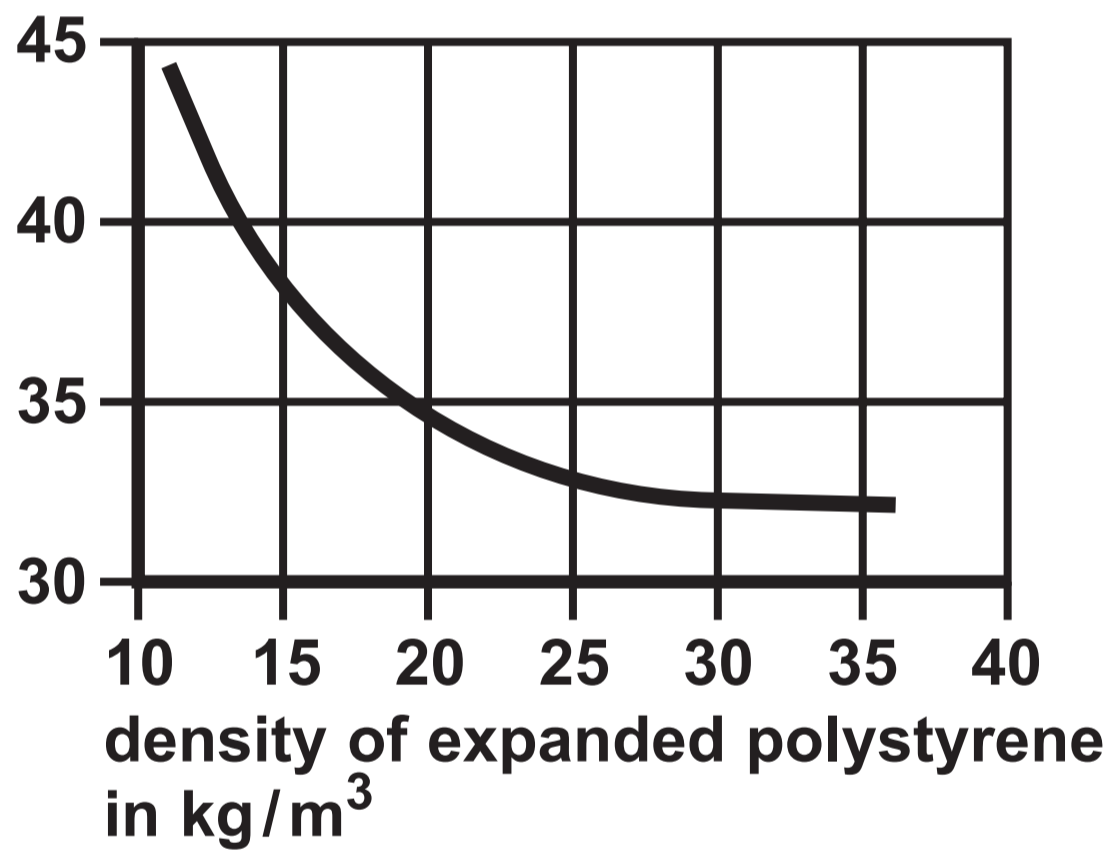
sand — 

sawdust — 

Question 2(c)

FIGURE 4

thermal conductivity of
expanded polystyrene
in mW/m.K



Question 3(a)

FIGURE 5

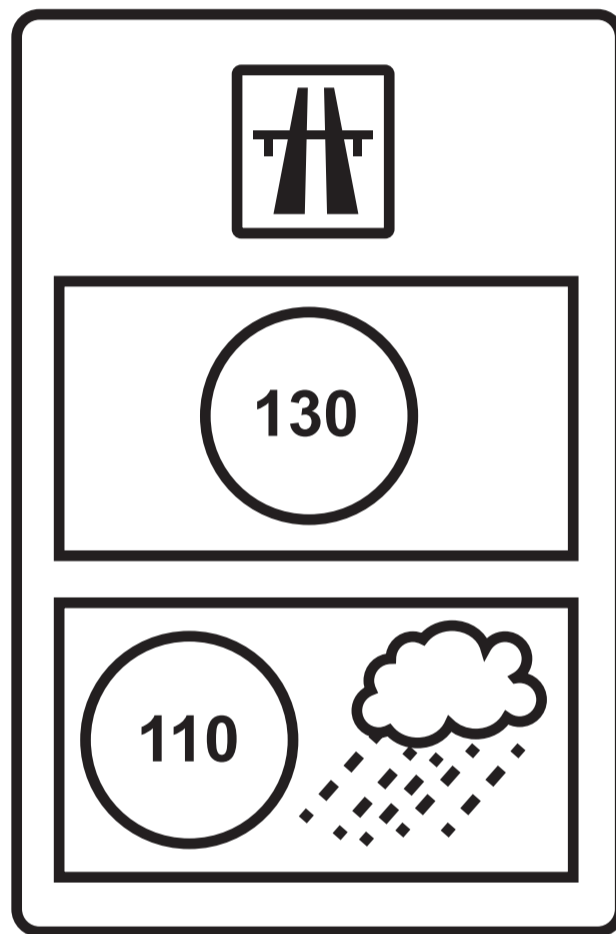
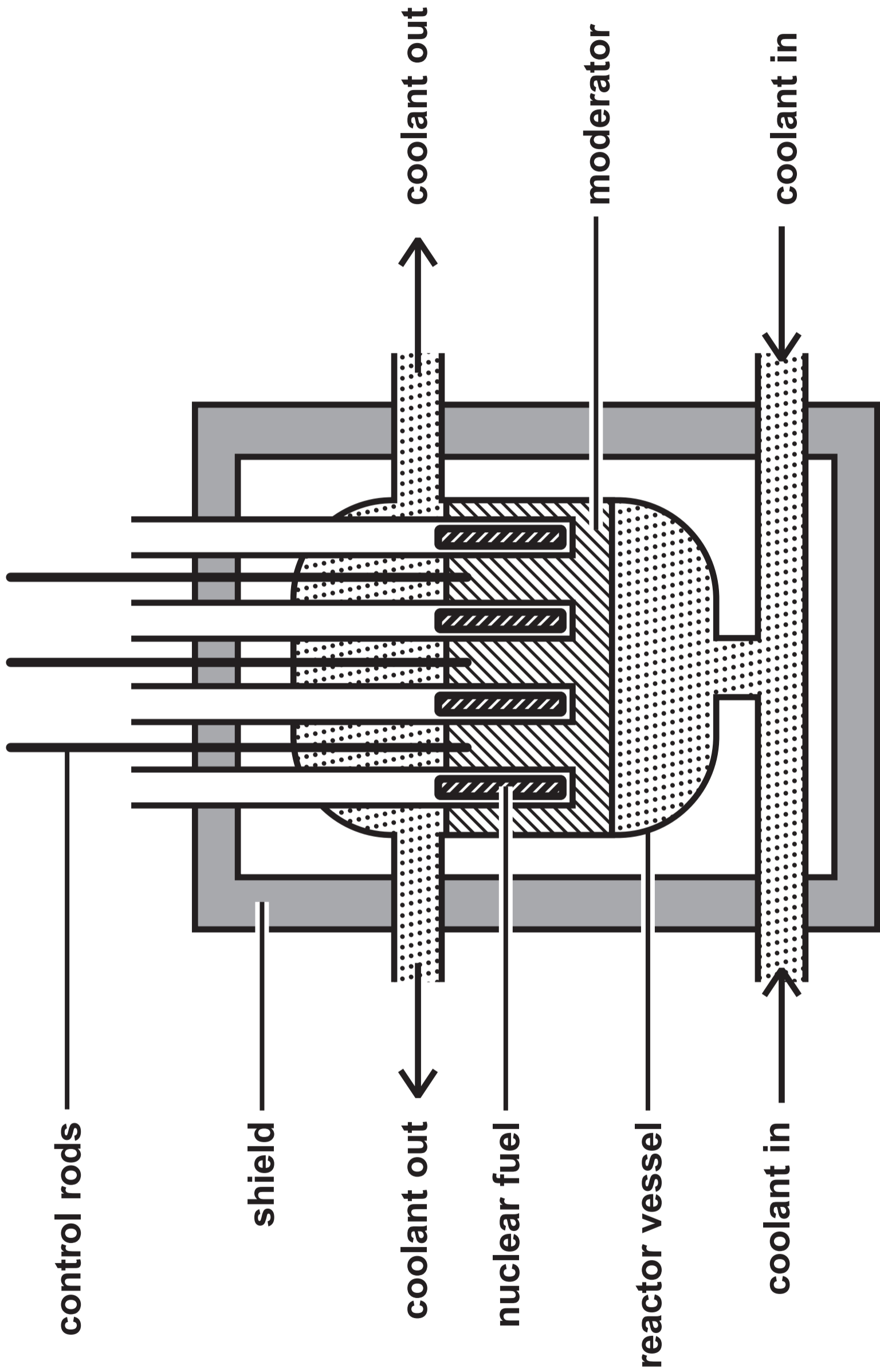


FIGURE 6



Question 6(b)

FIGURE 7

Key

| line of hydrogen spectrum

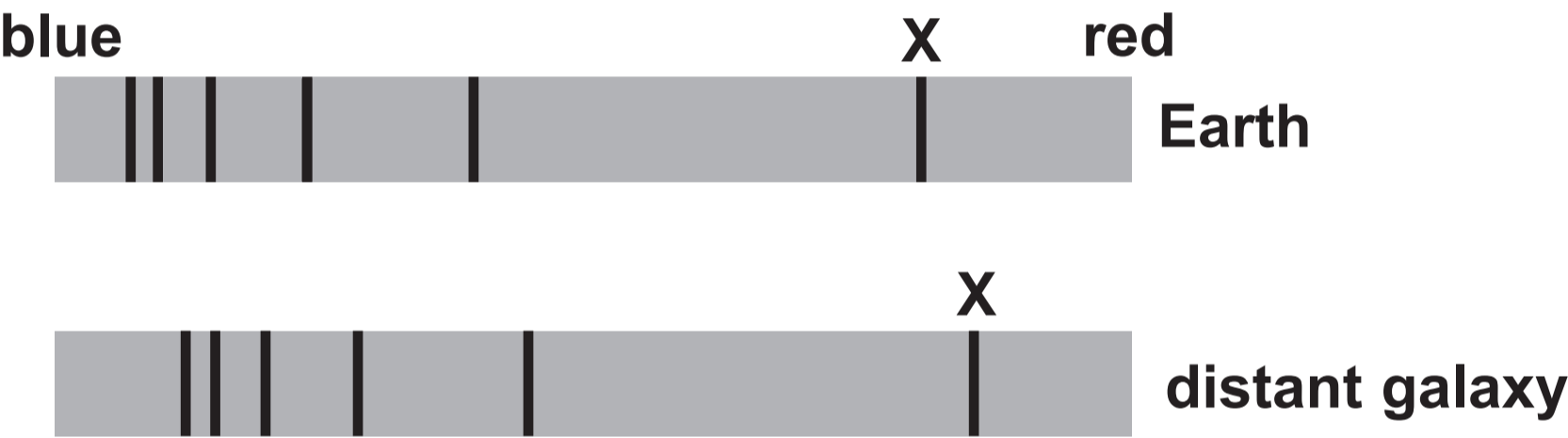


FIGURE 8

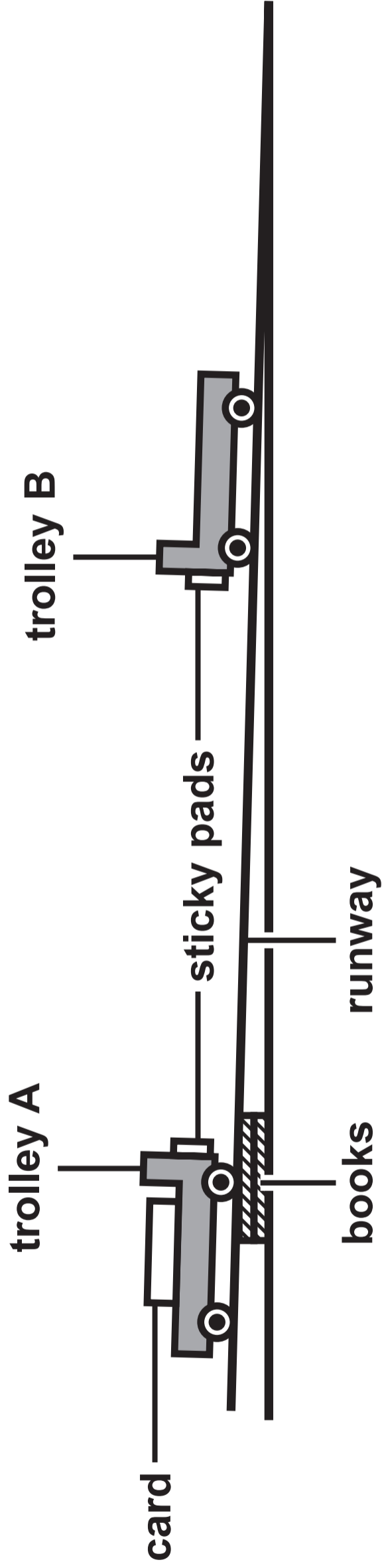
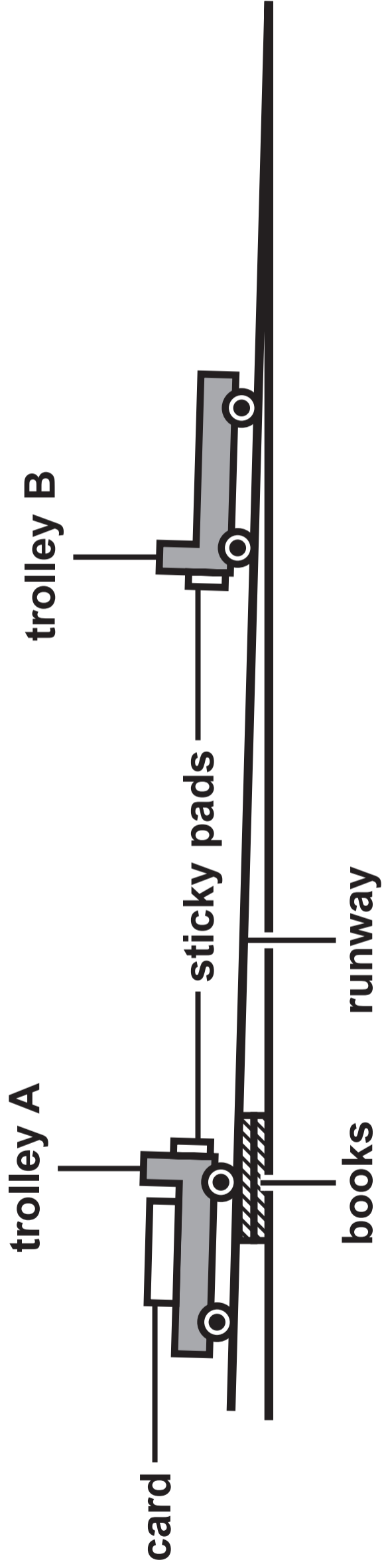


FIGURE 8



Question 7(c)

FIGURE 9

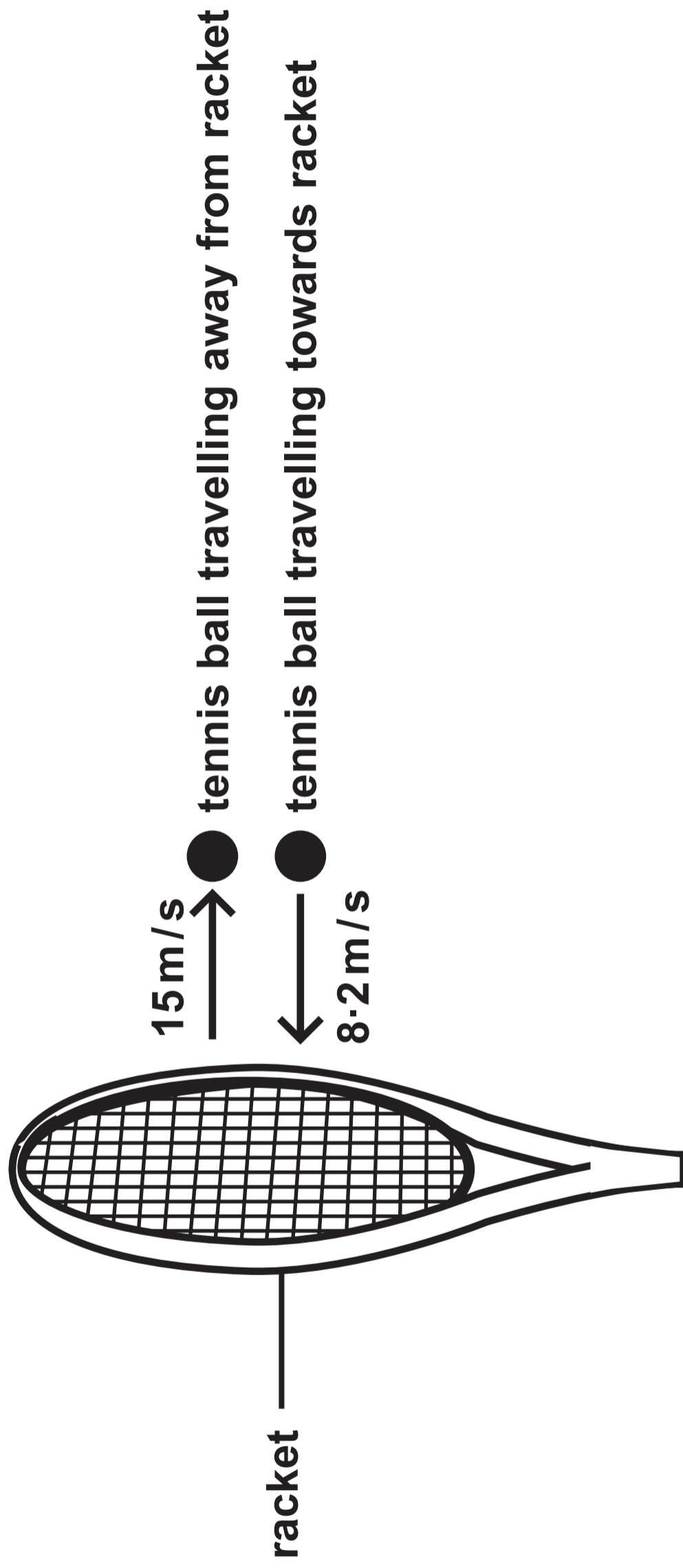
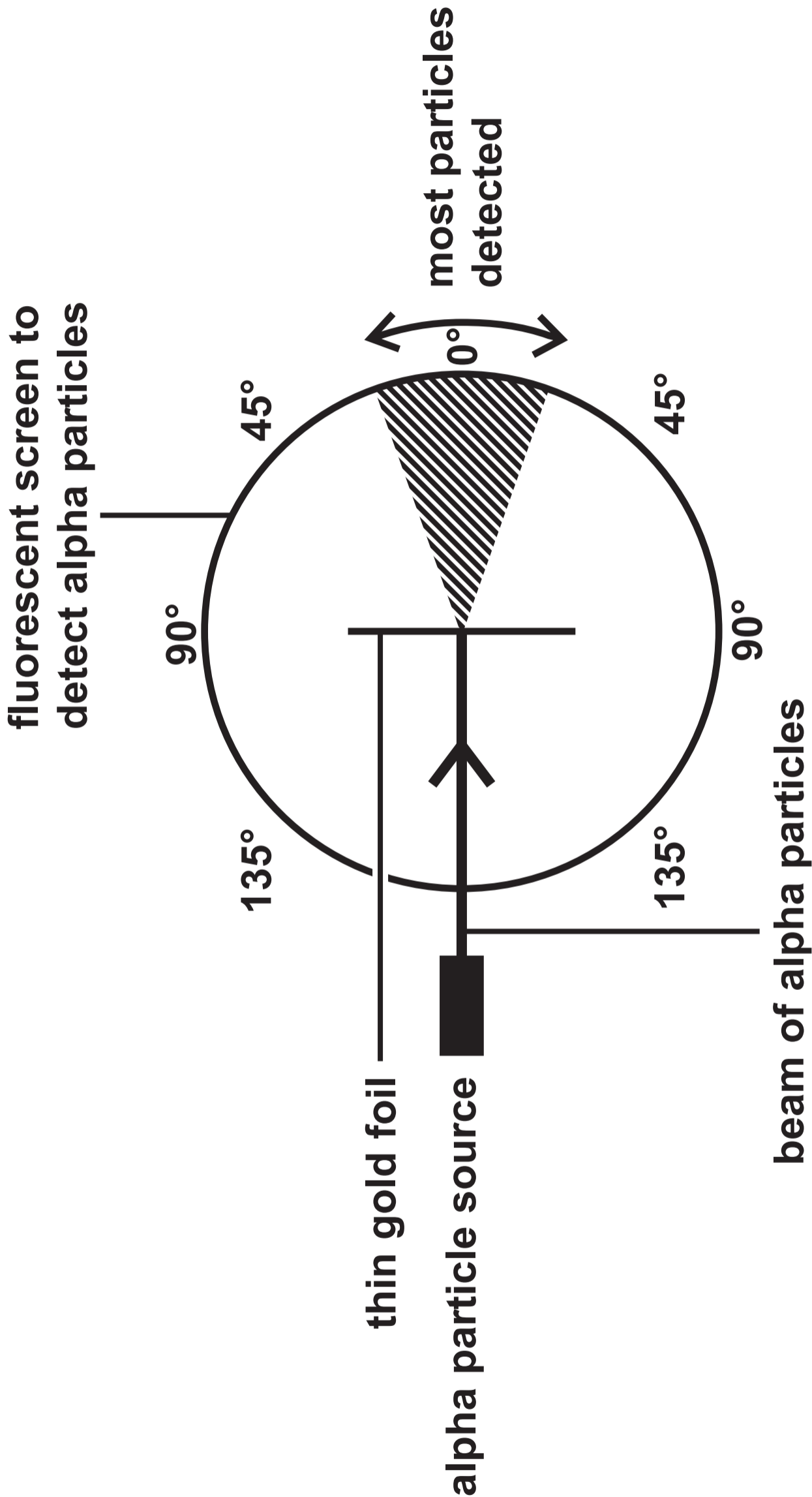


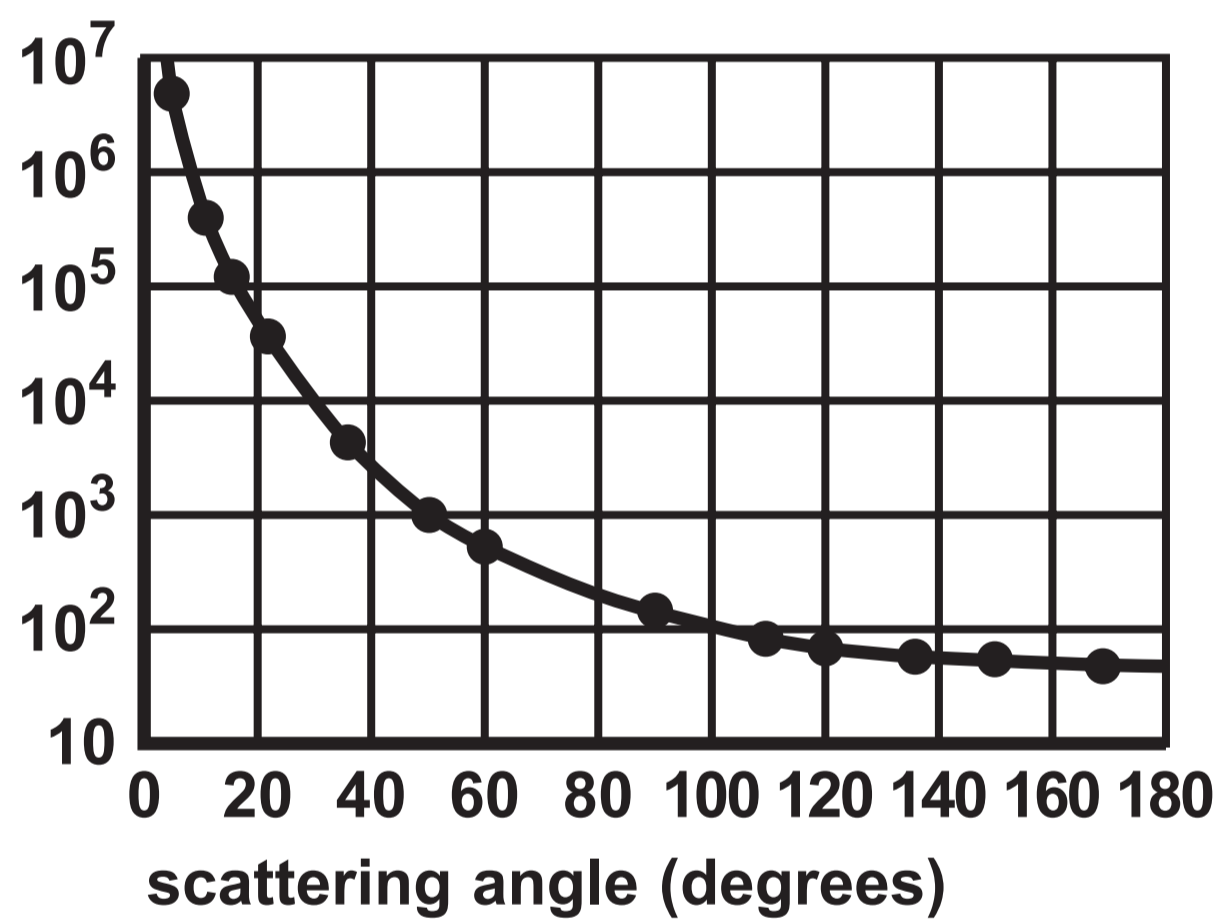
FIGURE 10



Question 8(b)(i)

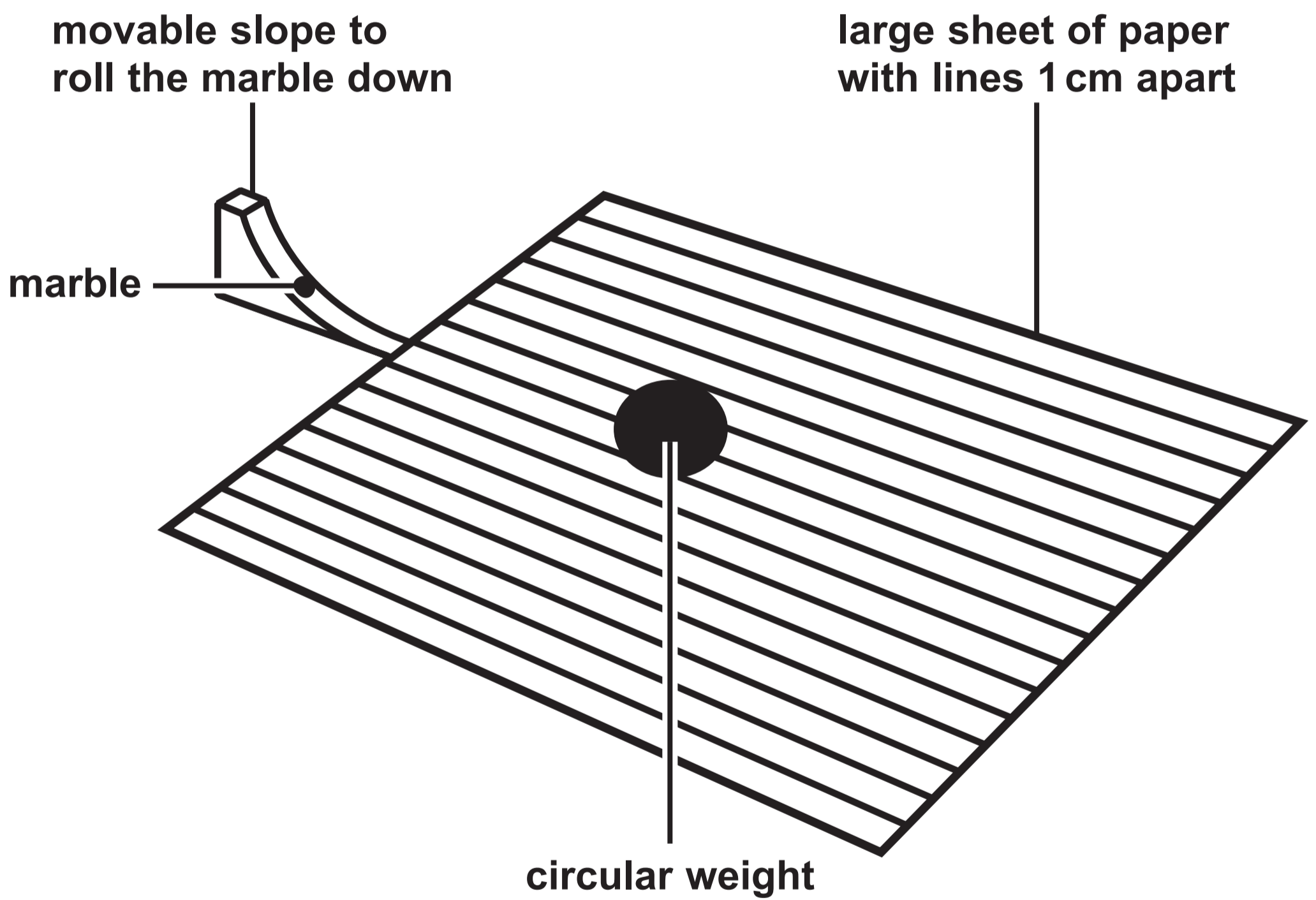
FIGURE 11

number of scattered
particles detected



Question 8(c)

FIGURE 12



Question 10(b)

FIGURE 13A

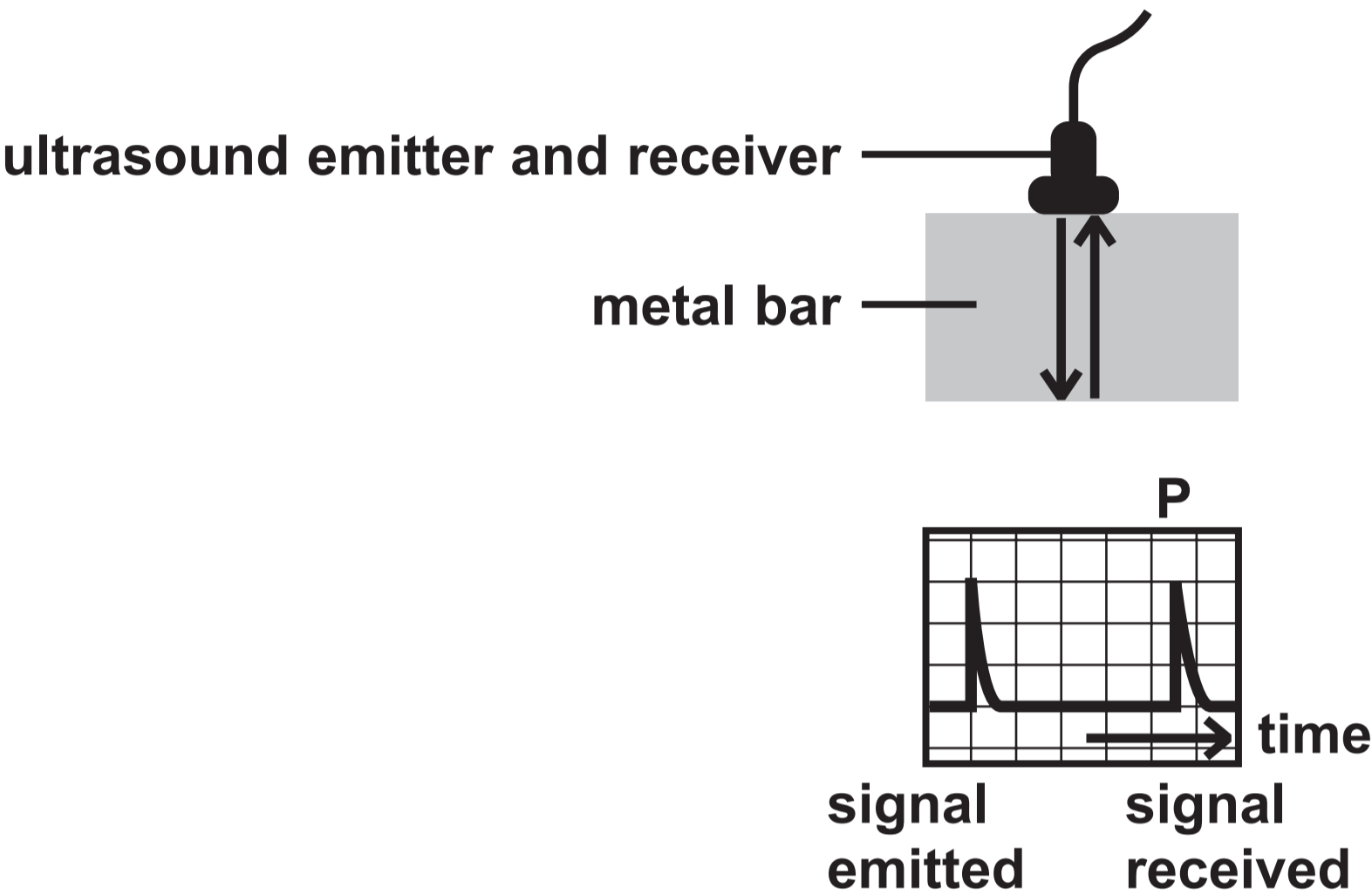
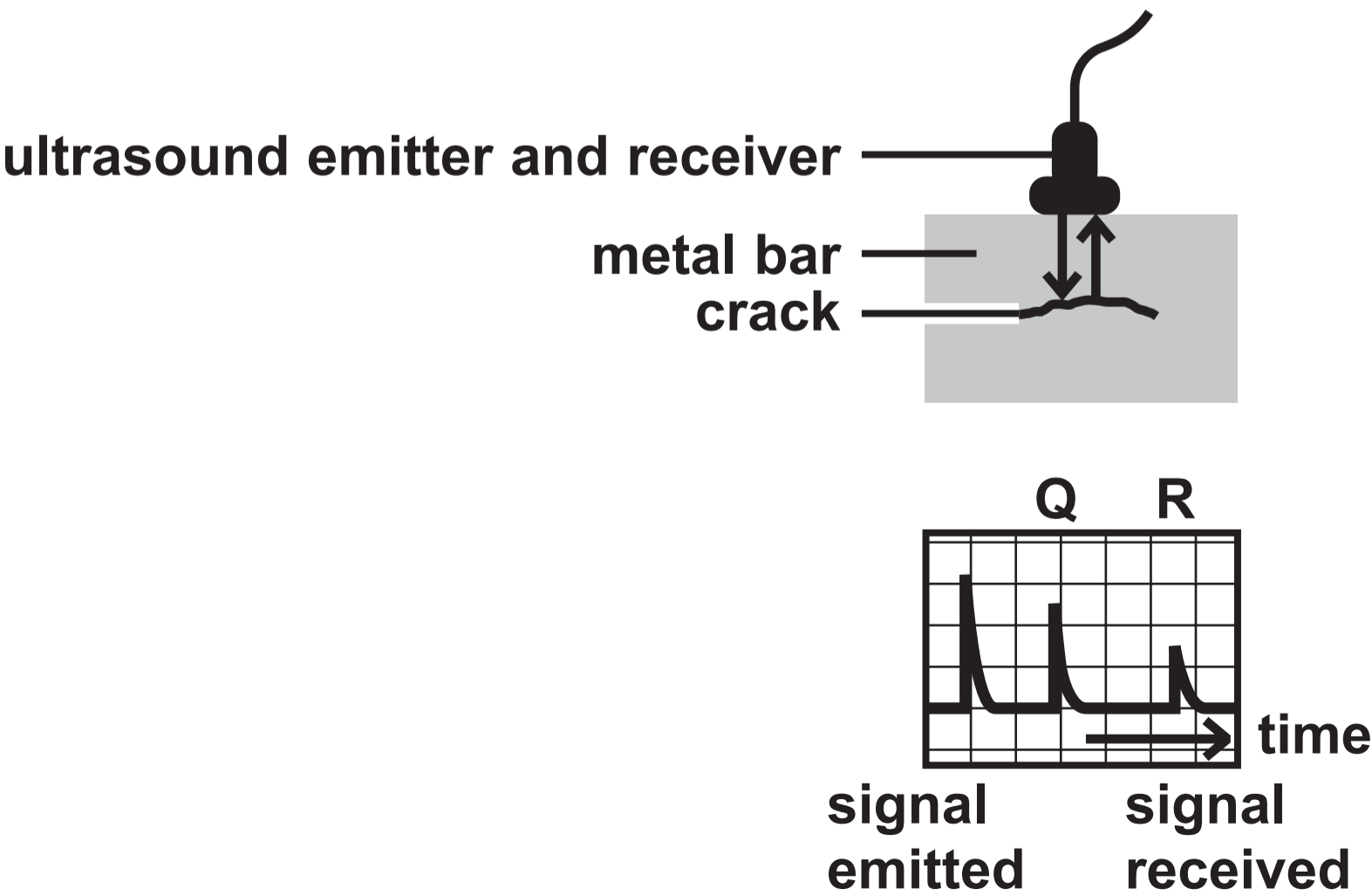


FIGURE 13B



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

