

Paper Reference(s) 1SC0/1PF
Pearson Edexcel Level 1/Level 2 GCSE
(9–1)

Combined Science
PAPER 3
Foundation 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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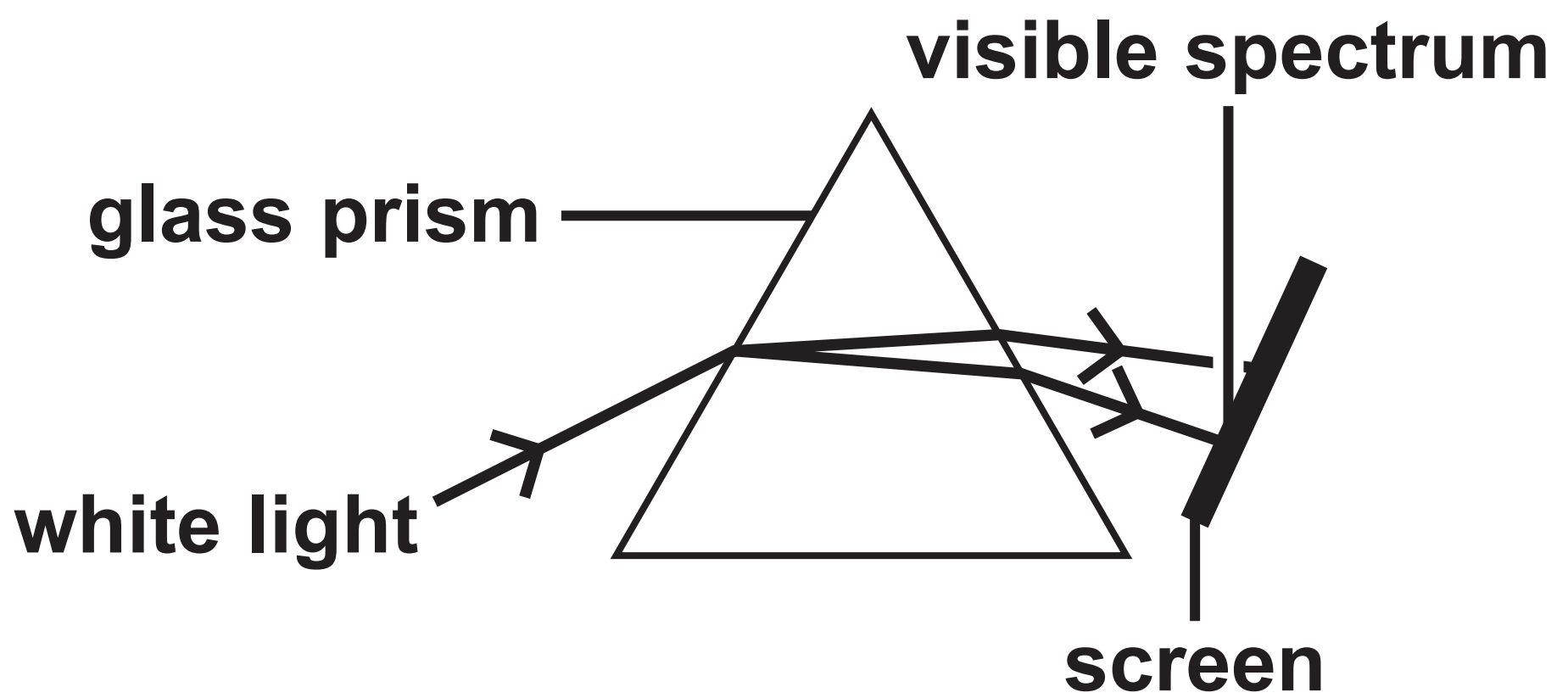
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Question 1(a)

FIGURE 1



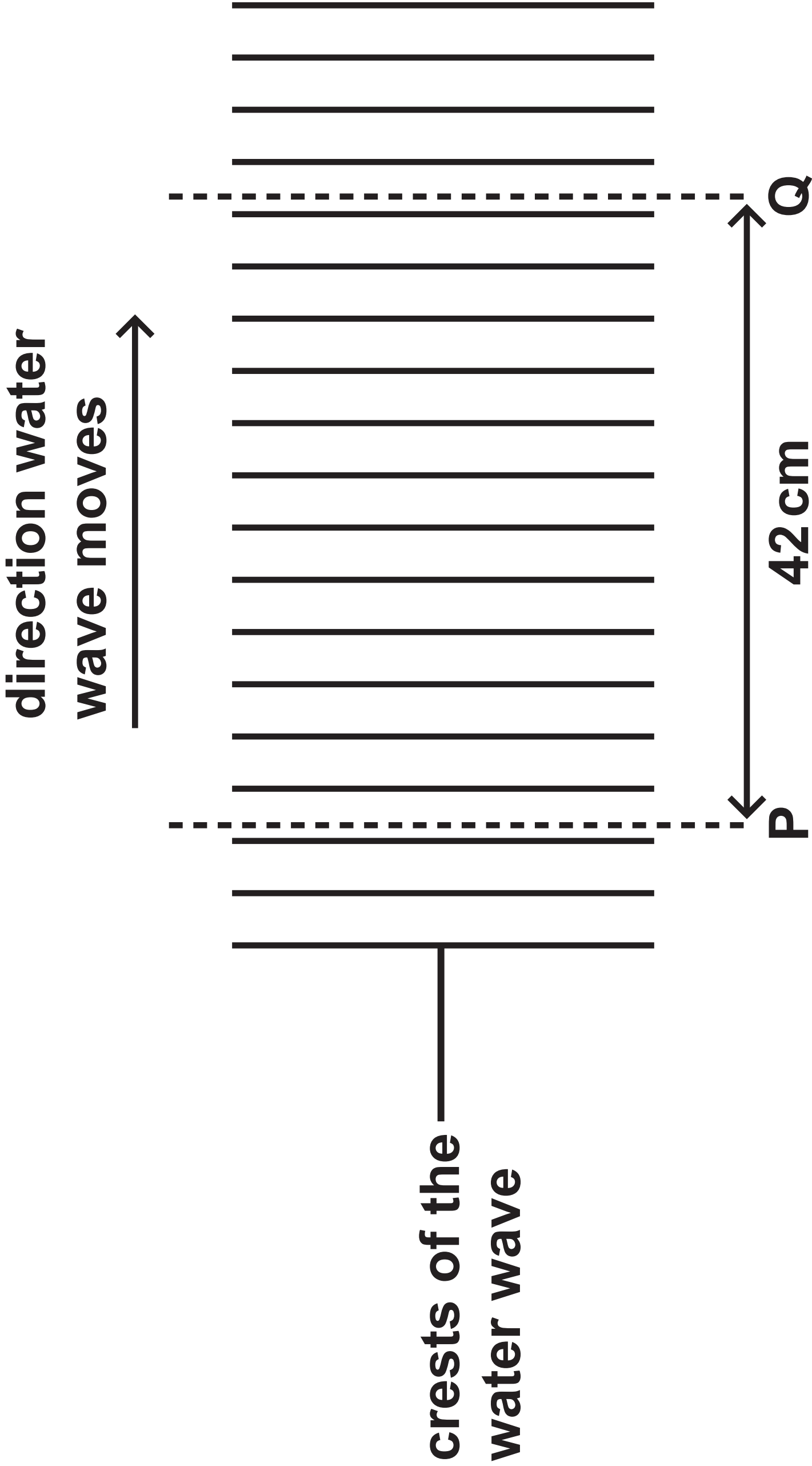
Question 1(b)

FIGURE 2

radio	microwaves	infrared	visible light	ultraviolet	x-rays	gamma rays
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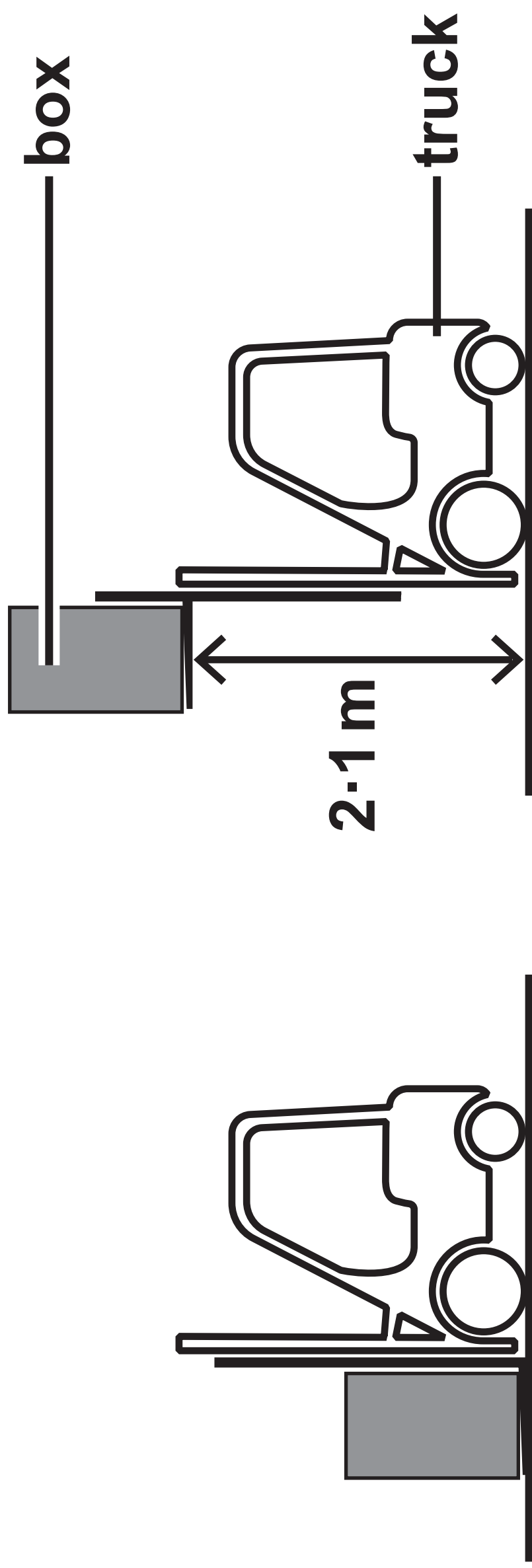
6
Question 2(a)

FIGURE 3



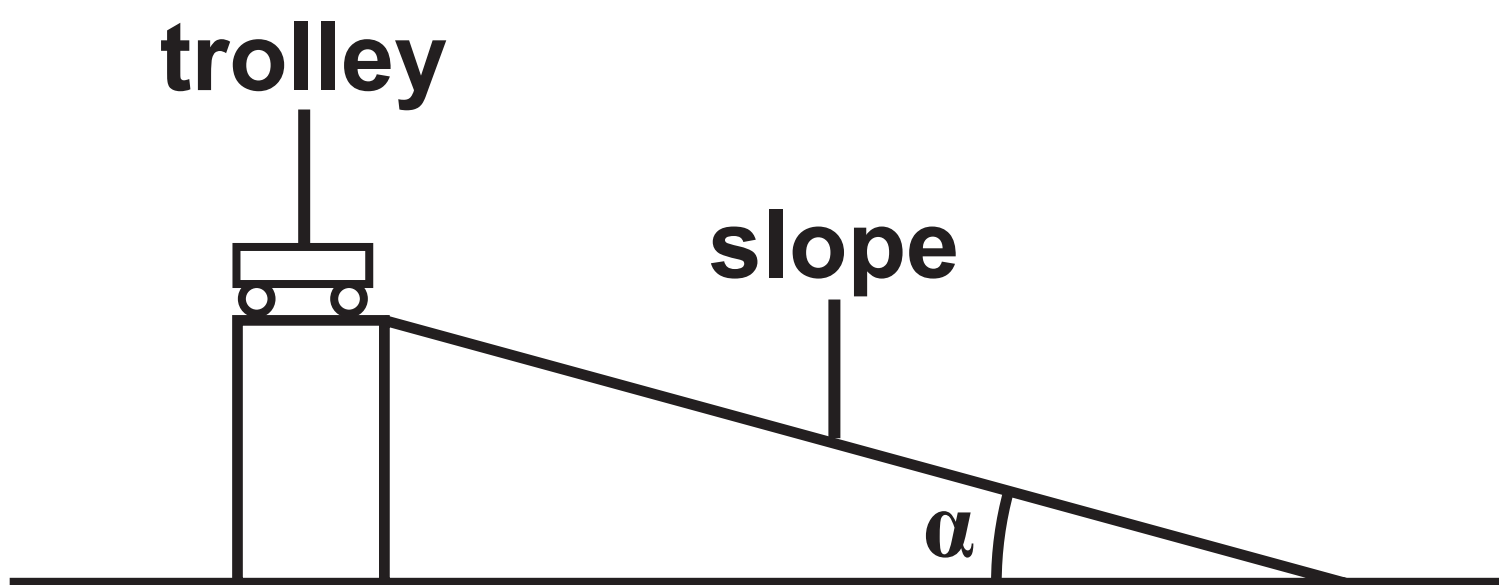
7
Question 3(a)

FIGURE 4



Question 3(c)

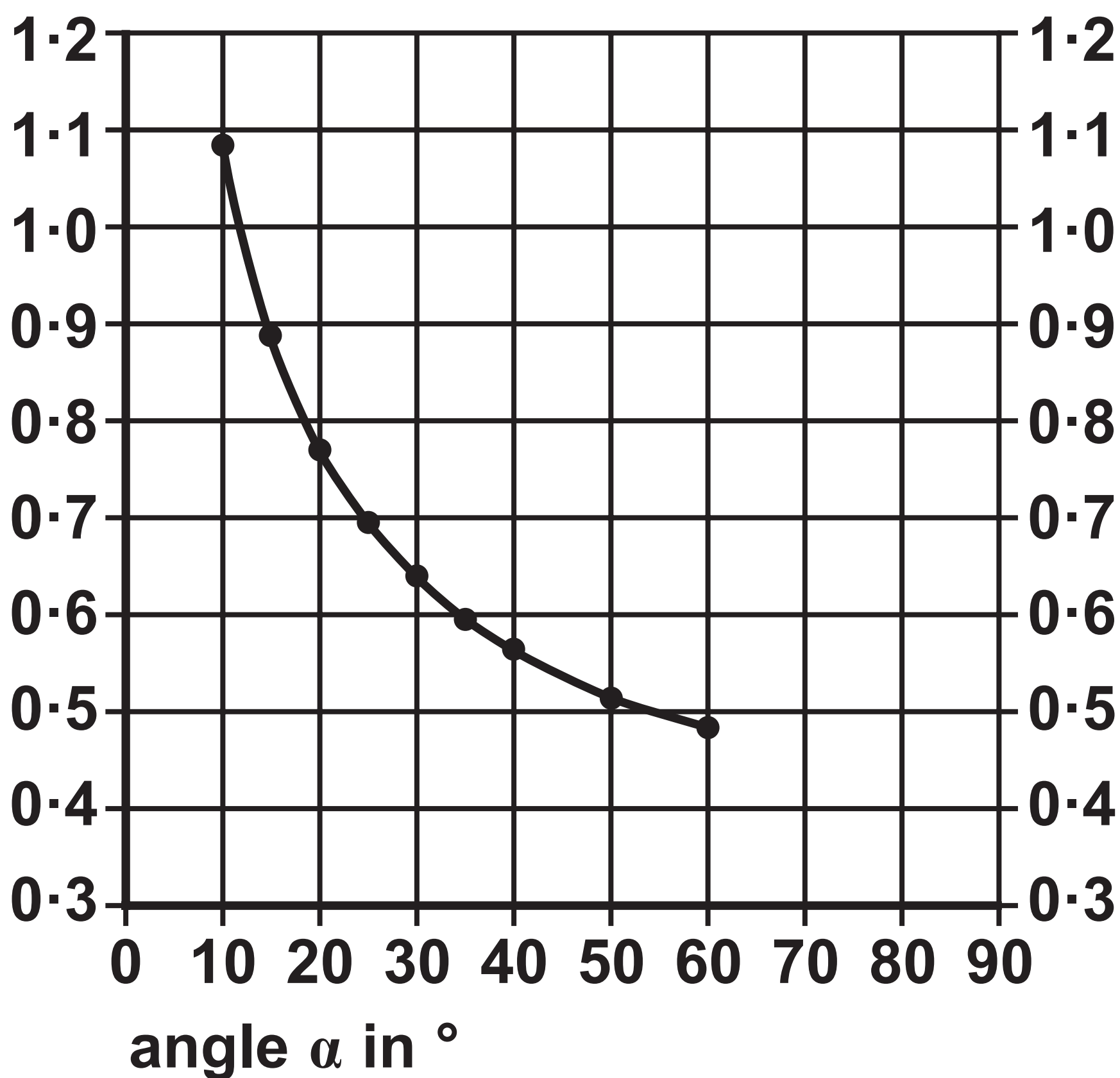
FIGURE 5



Question 3(c)(i) and 3(c)(ii)

FIGURE 6

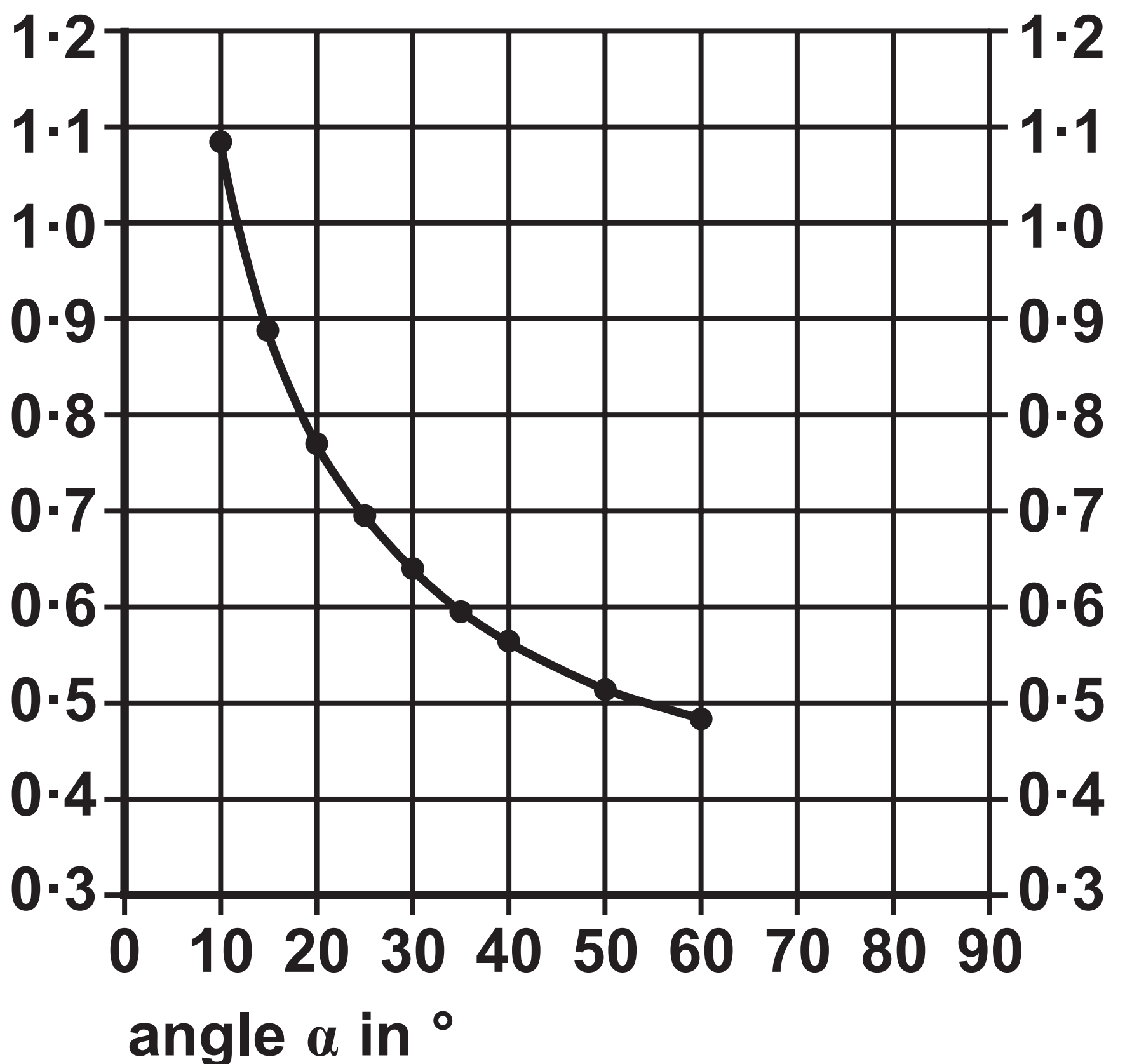
time the trolley takes to
roll down the ramp in s



Question 3(c)(i) and 3(c)(ii)

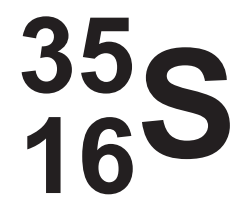
FIGURE 6

time the trolley takes to
roll down the ramp in s



Question 4(b)

FIGURE 8



type of particle

number of particles

proton

35

neutron

16

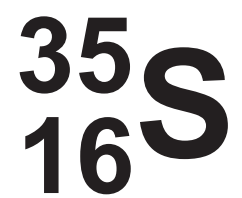
nucleon

51

19

Question 4(b)

FIGURE 8



type of particle

number of particles

proton

35

neutron

16

nucleon

51

19

Question 5(b)

FIGURE 9

small copper can — 

large copper can — 

sand — 

sawdust — 

Question 5(c)

FIGURE 10

thermal conductivity of
expanded polystyrene
in mW/m.K



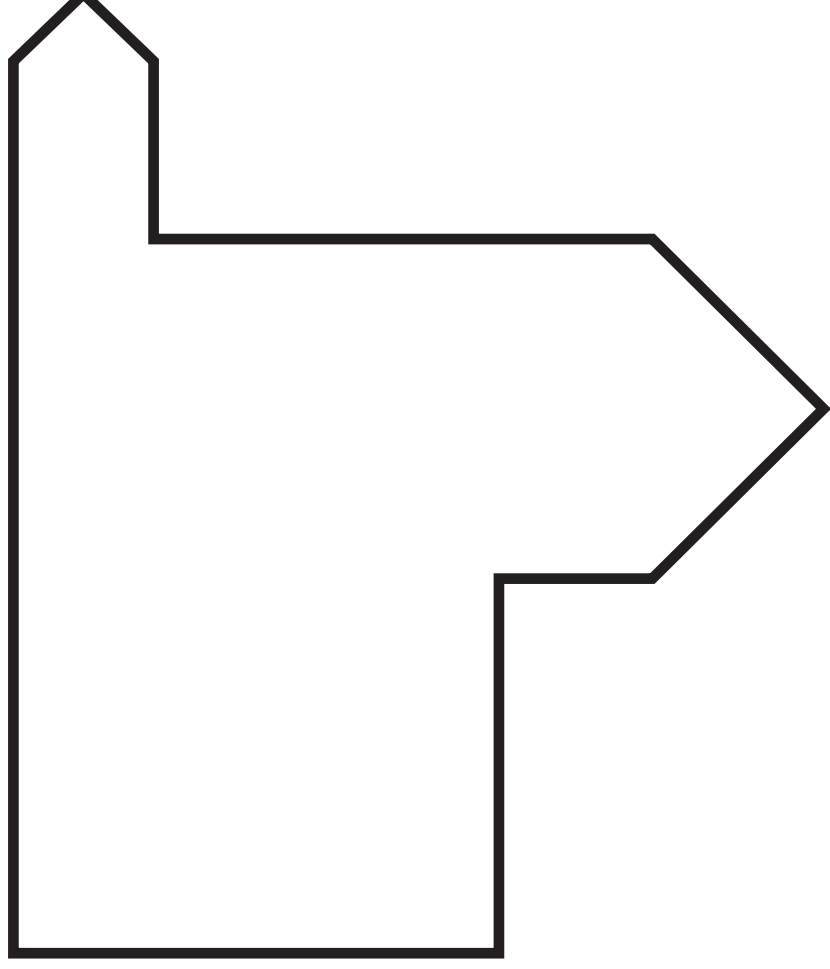
density of expanded
polystyrene in kg/m³

Question 5(d)

FIGURE 11

energy supplied
to the kettle in
one second = 3000 J

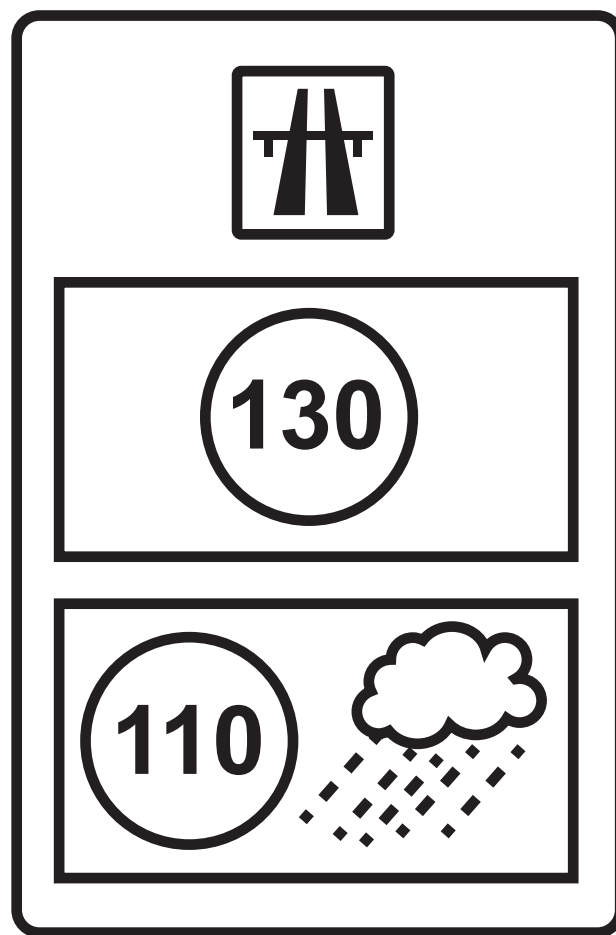
energy lost to
the surroundings
in one second



energy used to
heat the water in
one second = 2400 J

Question 6(a)

FIGURE 12



Question 6(b)

FIGURE 13

velocity of toy train

