

Paper Reference 1MA1/2H  
Pearson Edexcel  
Level 1/Level 2 GCSE (9–1)

Mathematics  
Paper 2  
(Calculator)  
Higher Tier

Thursday 7 November 2019 – Morning

Diagram Book

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.

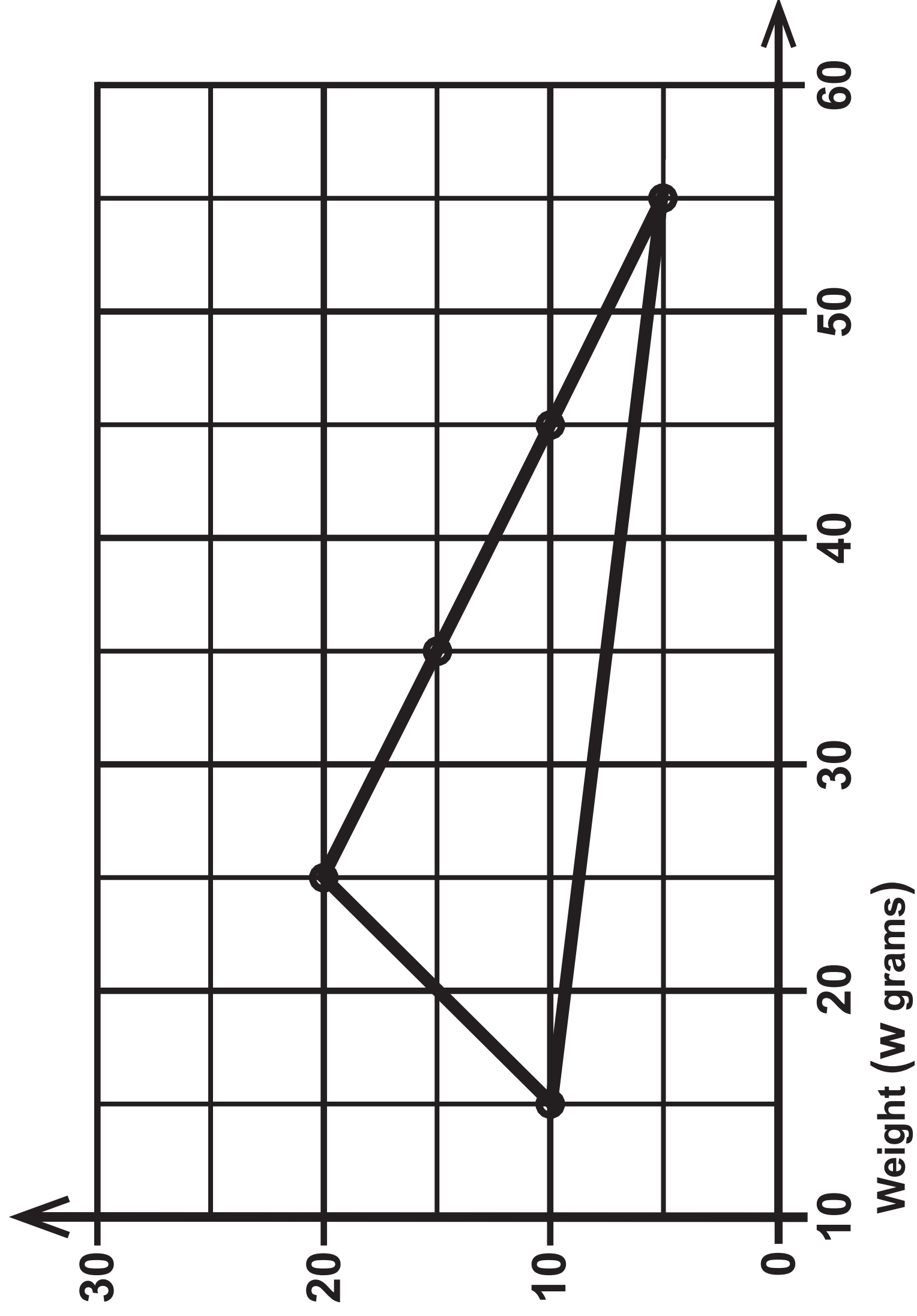
**THIS DIAGRAM BOOK MUST BE RETURNED WITH THE QUESTION PAPER AT THE END OF THE EXAMINATION.**

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Question 1



## Question 3

**Tom and Adam have a total of 240 stamps.**

**The ratio of the number of Tom's stamps to the number of Adam's stamps is 3 : 7**

**Tom buys some stamps from Adam.**

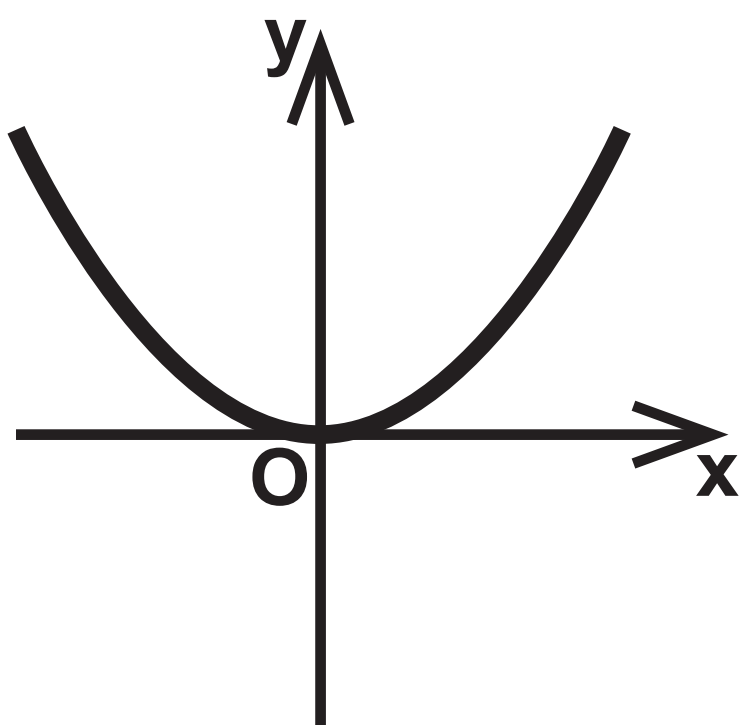
**The ratio of the number of Tom's stamps to the number of Adam's stamps is now 3 : 5**

# Question 4

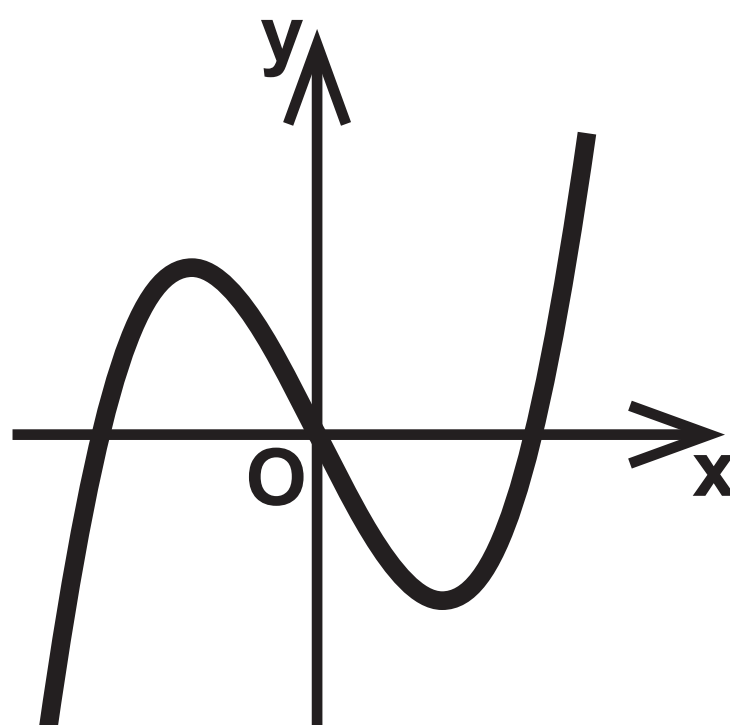
Gift	Number of people
sports bag	17
gym towel	7
headphones	11
voucher	15

## Question 5

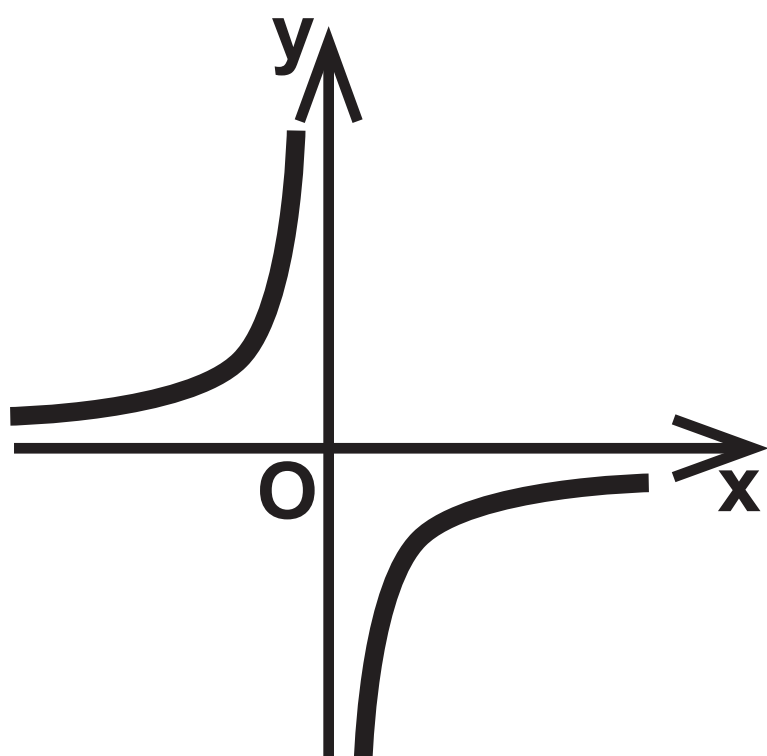
Graph A



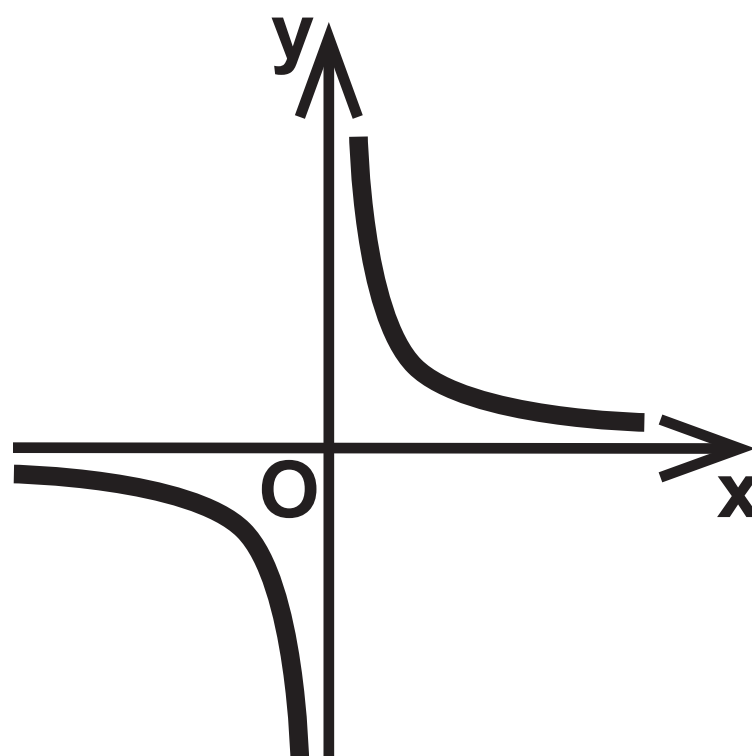
Graph B



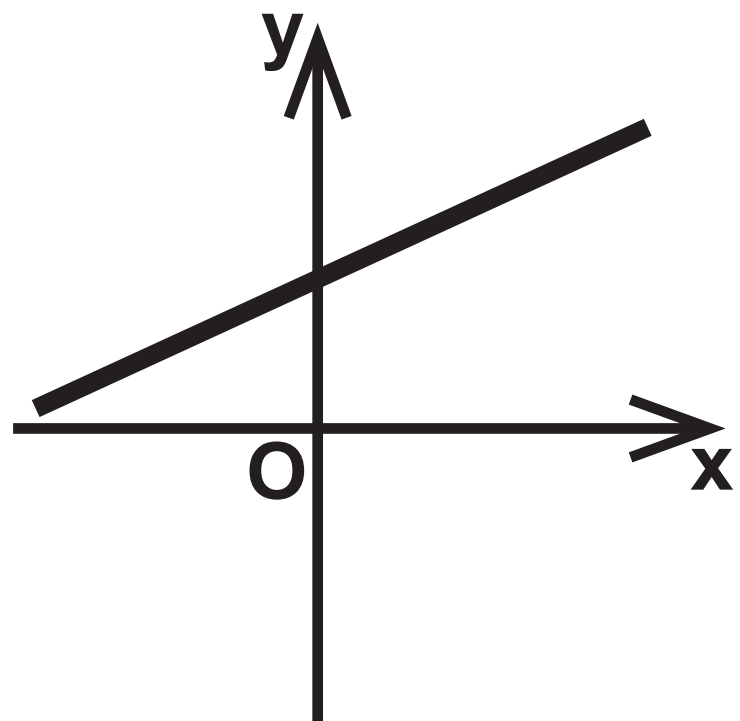
Graph C



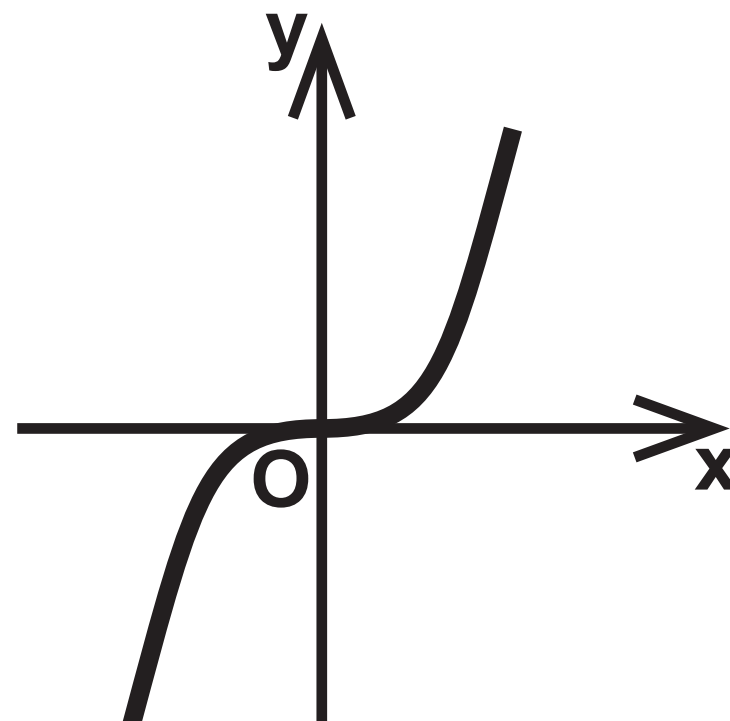
Graph D



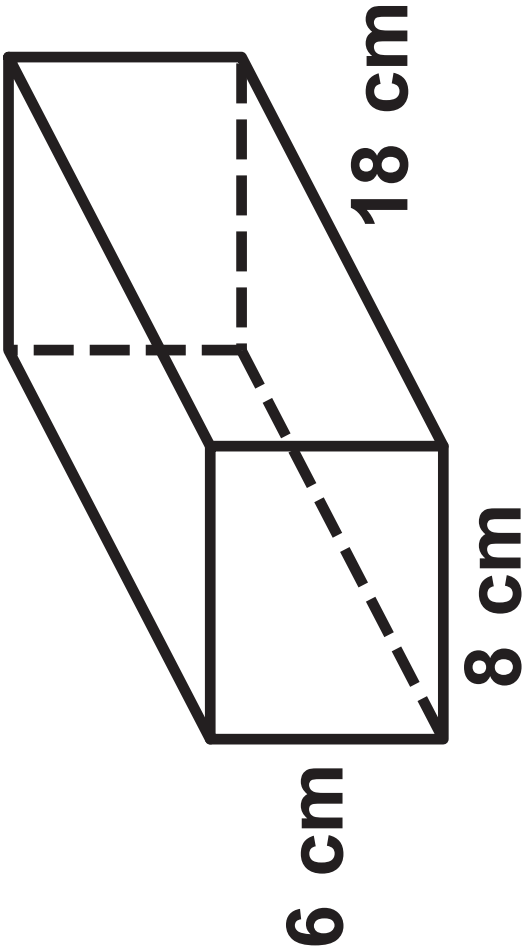
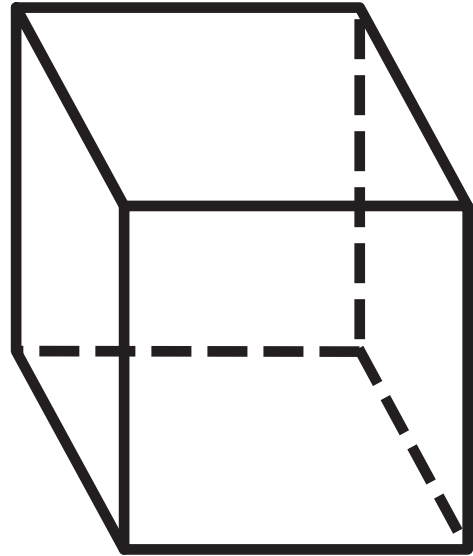
Graph E



Graph F

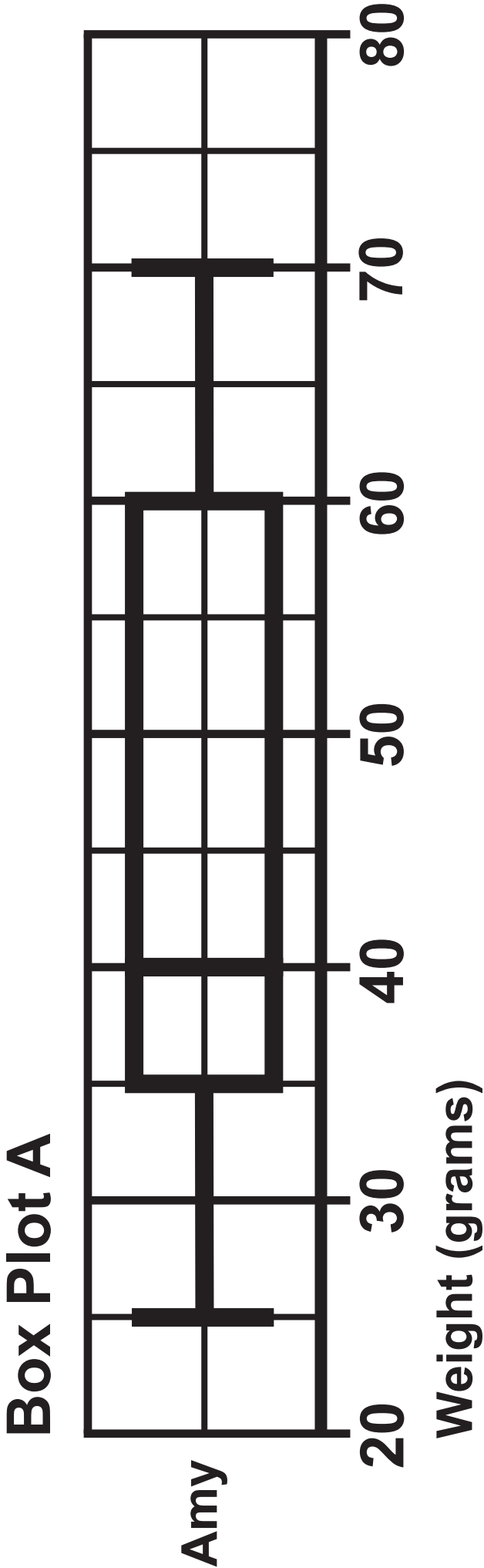
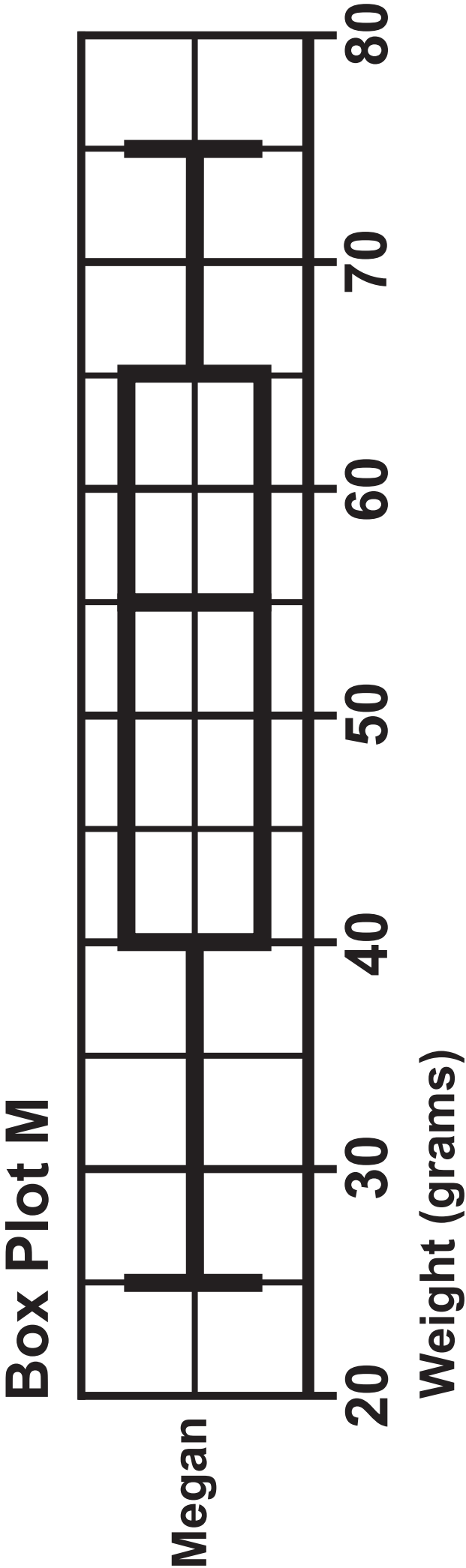


Question 9

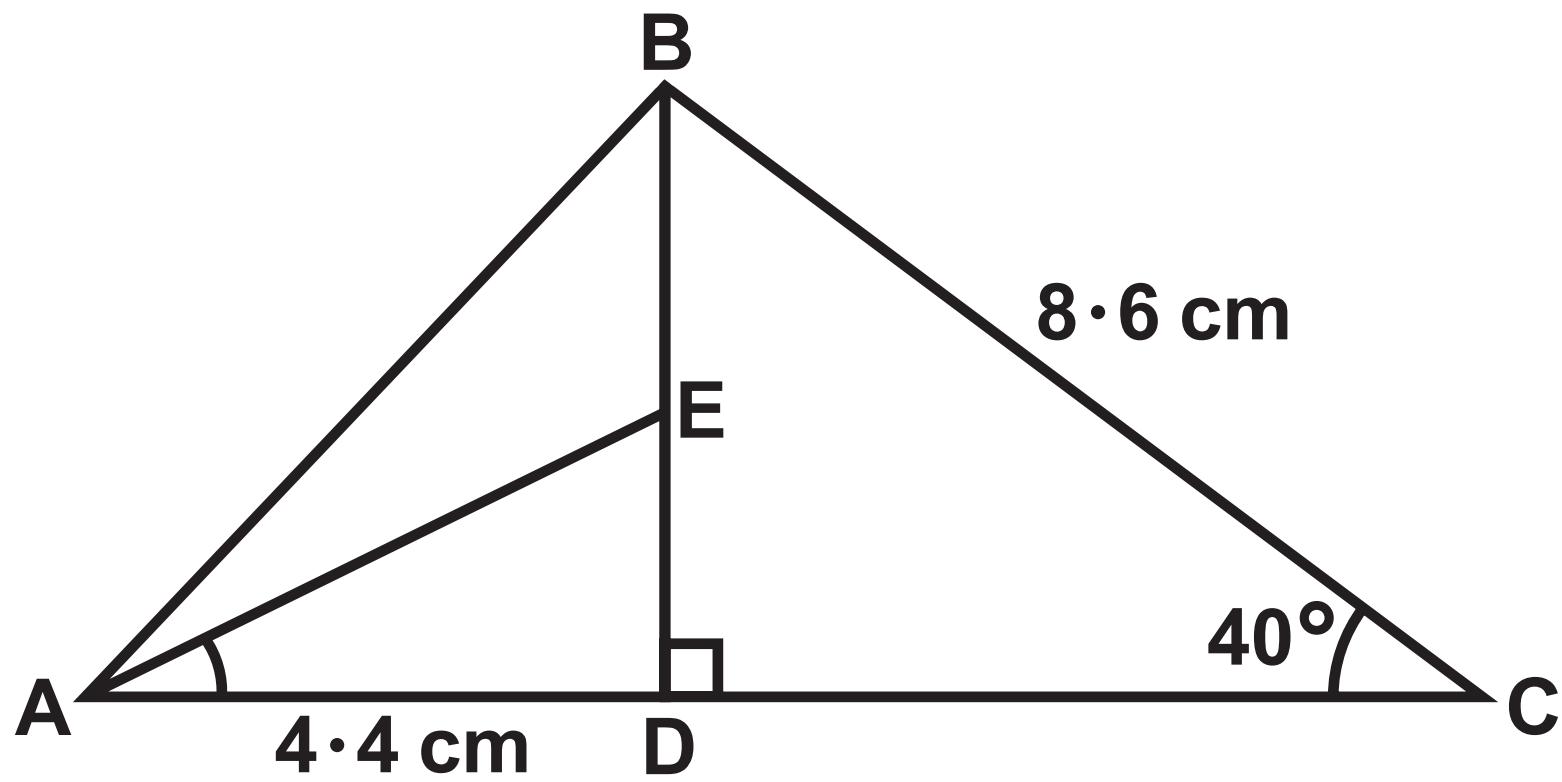




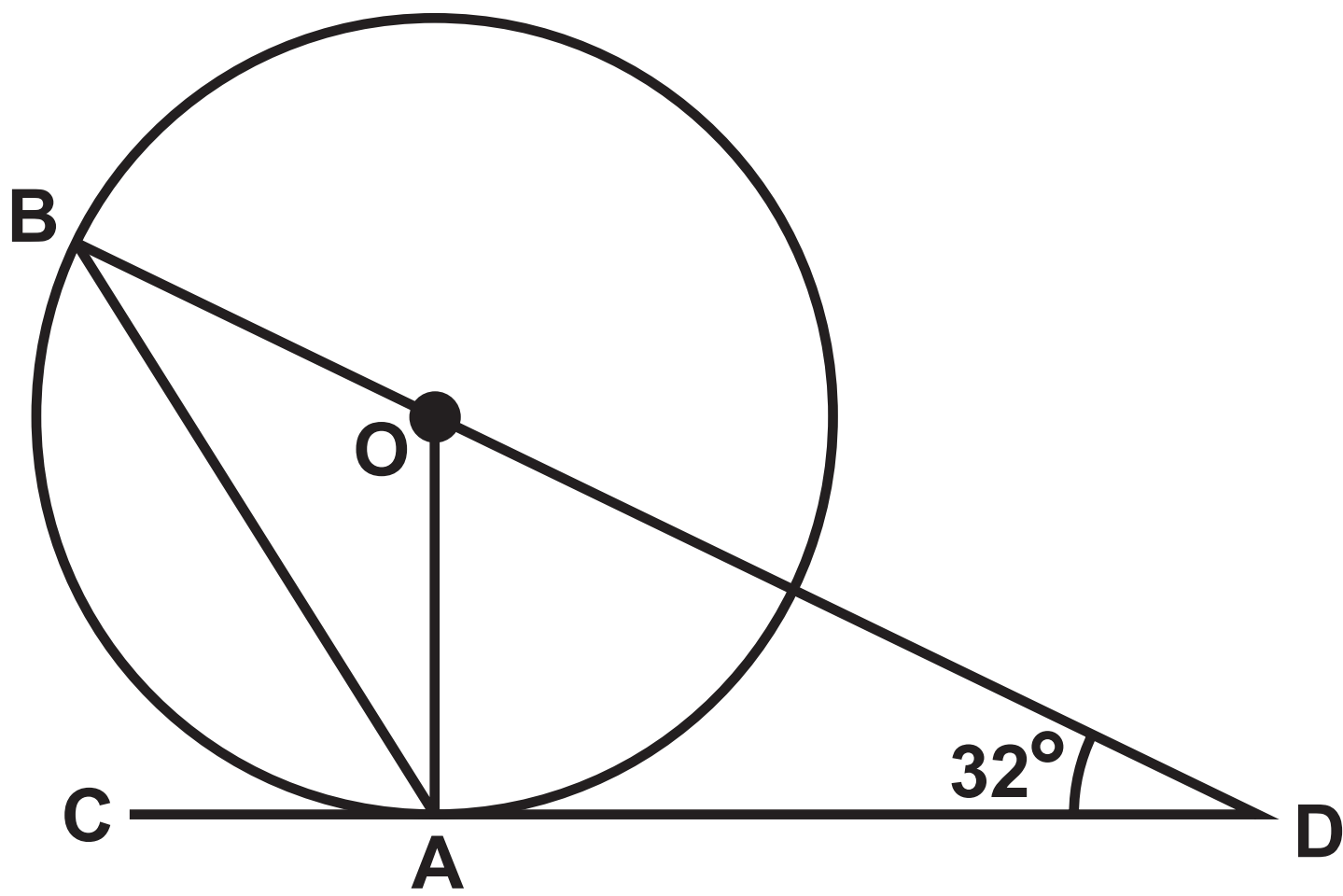
Question 11



Question 12

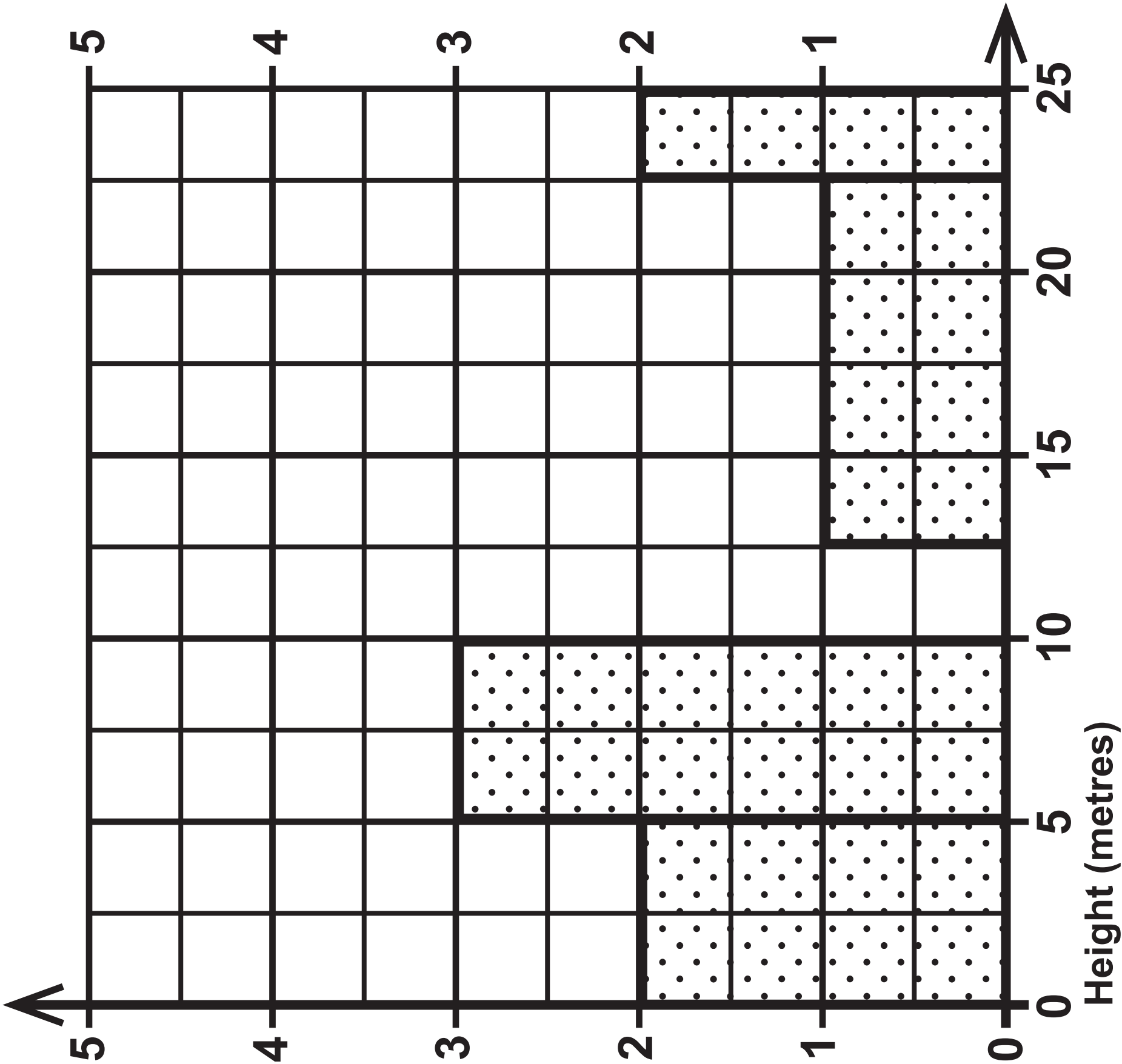


Question 17



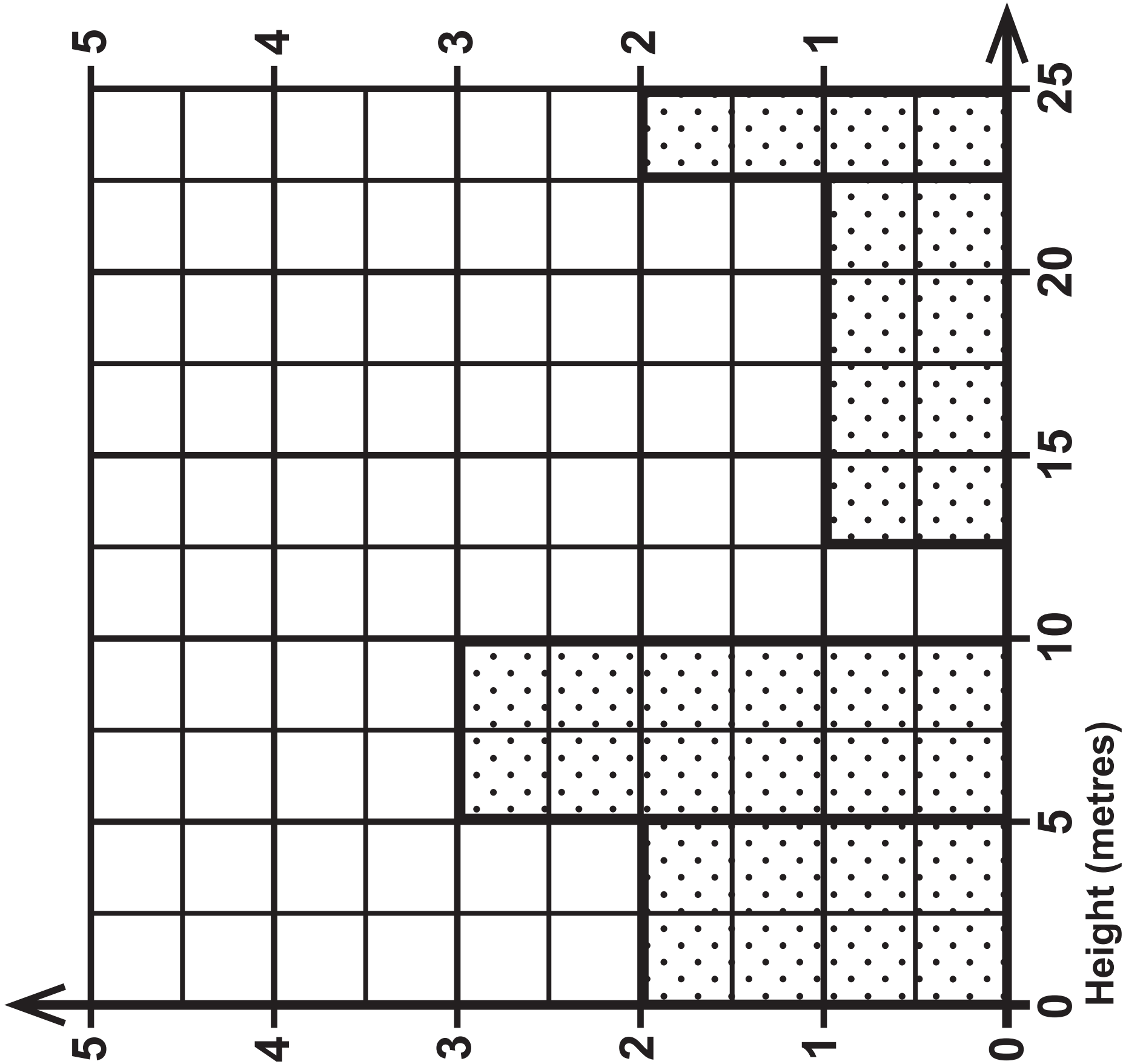
Question 18

Frequency density



Question 18

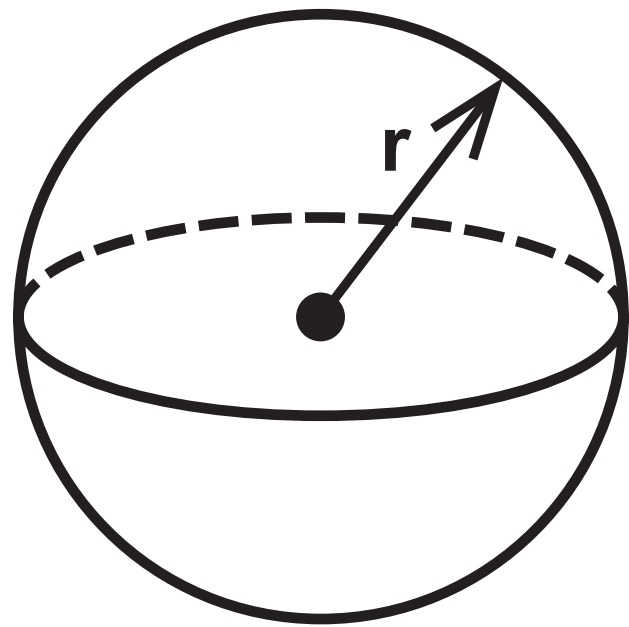
Frequency density



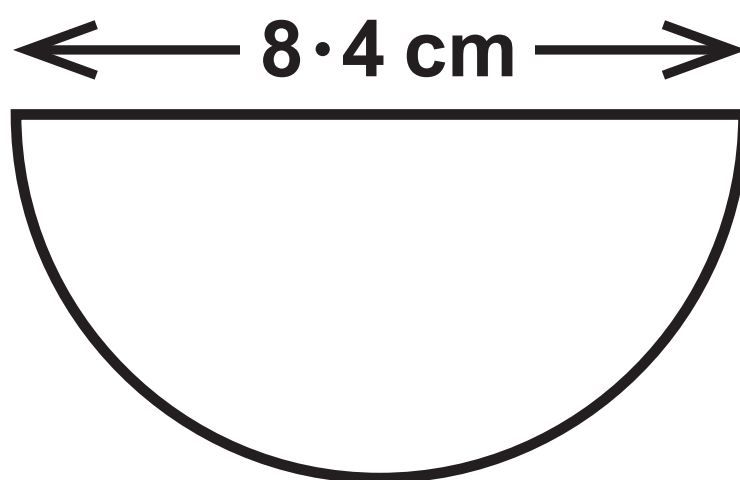
## Question 19

## Formula

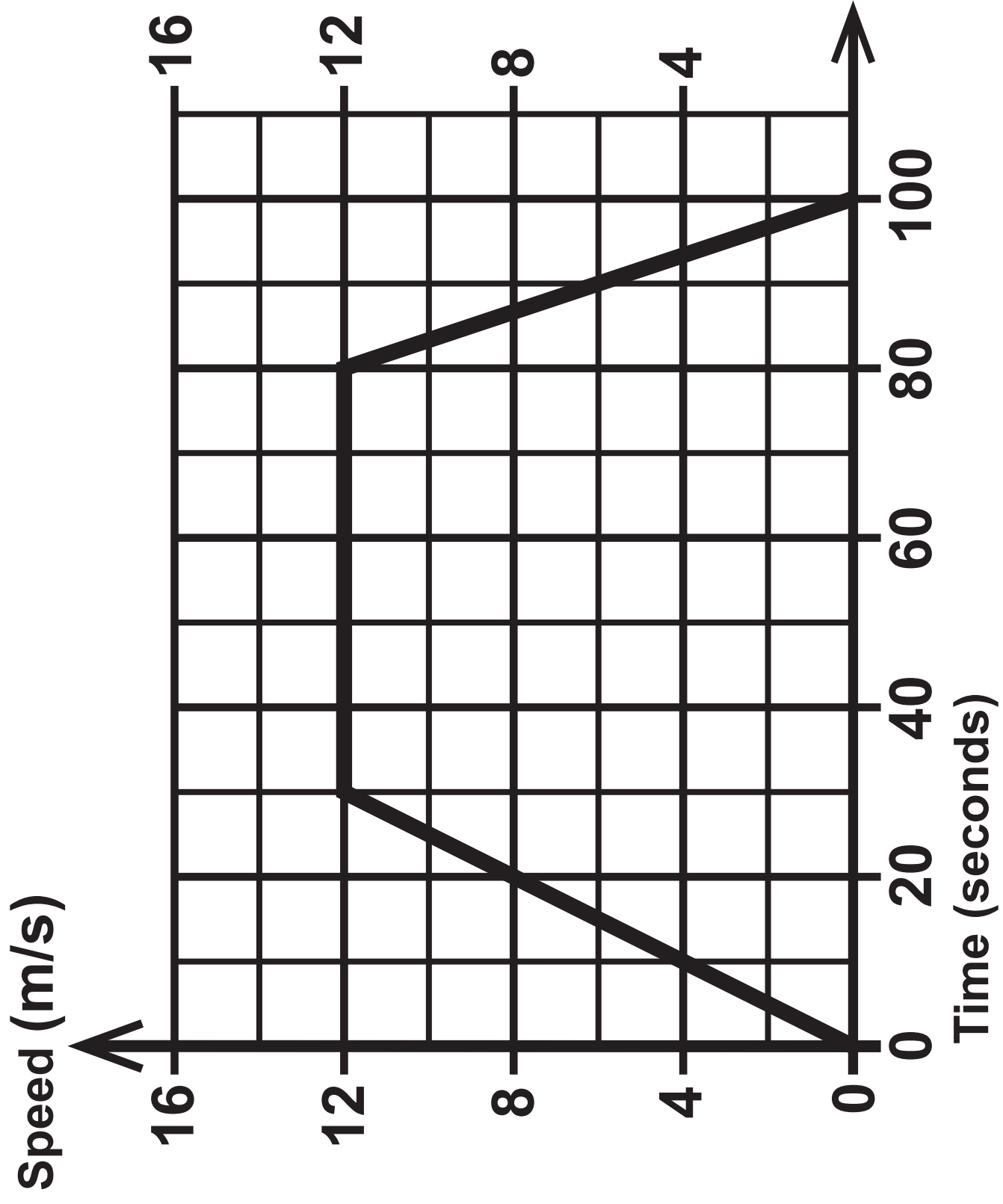
$$\text{Volume of sphere} = \frac{4}{3} \pi r^3$$



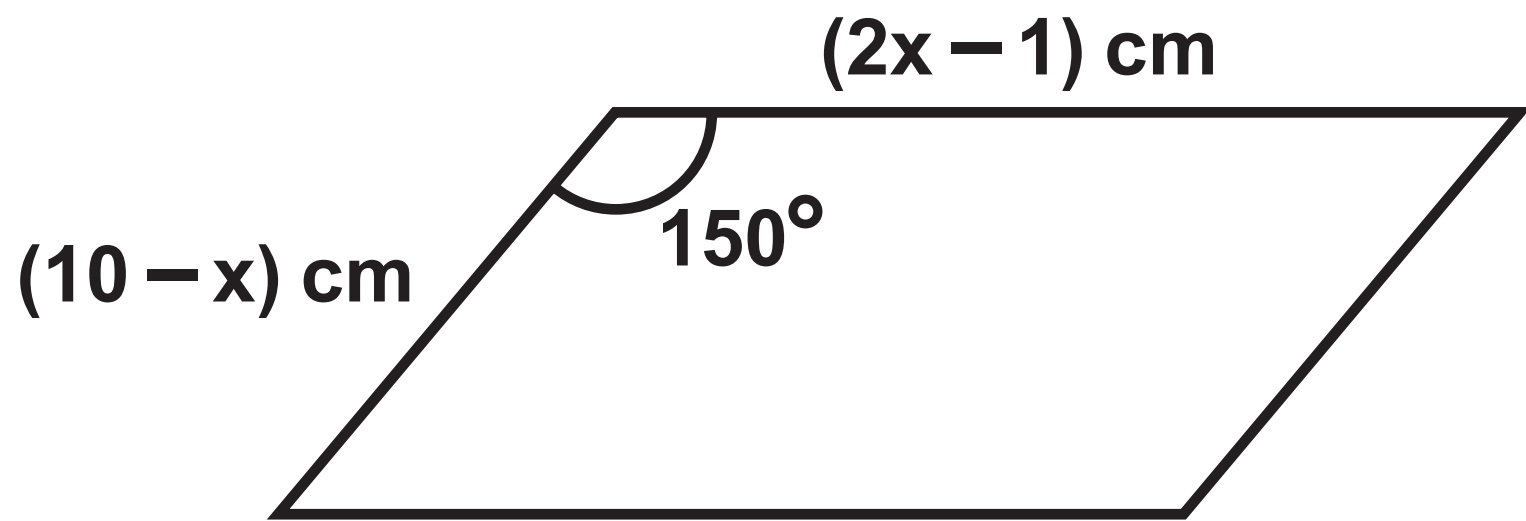
## Hemisphere



Question 21

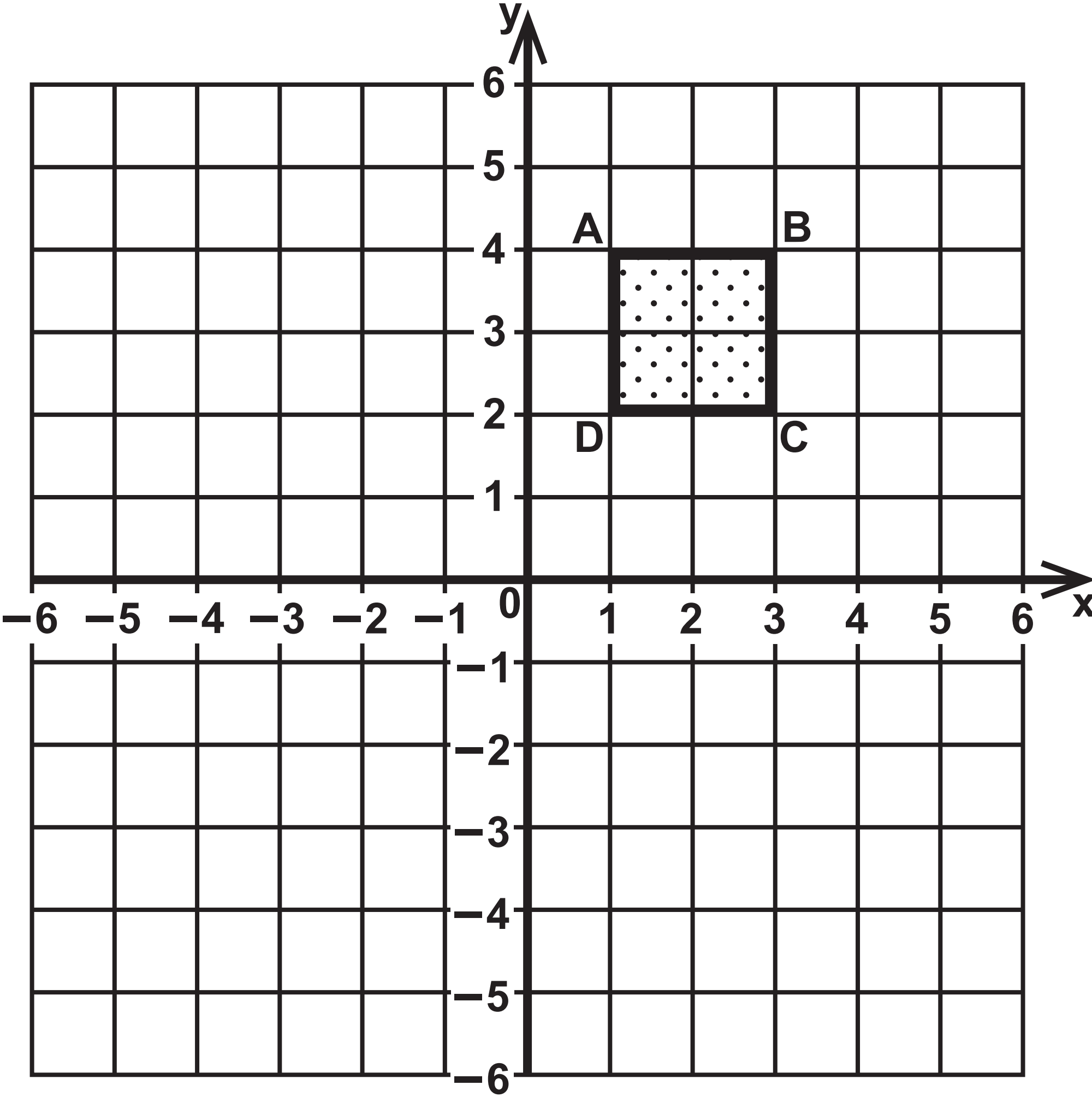


## Question 23





Question 24



Question 24

