

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.

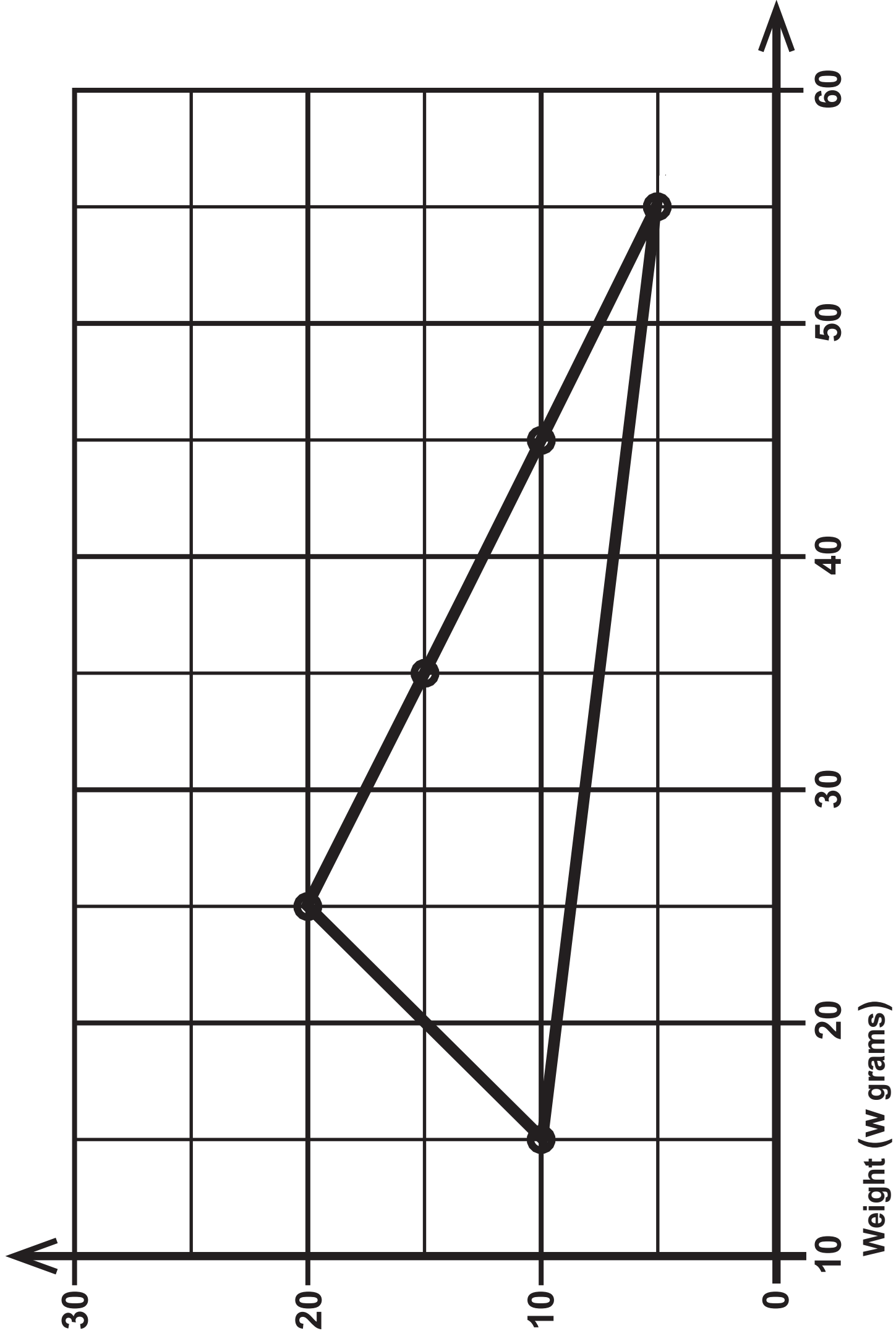
**THIS DIAGRAM BOOK MUST BE RETURNED WITH THE  
QUESTION PAPER AT THE END OF THE EXAMINATION.**

Contents

Page

4	Question 1
5	Question 3
6	Question 4
7	Question 5
8	Question 9
9	Question 11
10	Question 12
11	Question 17
12	Question 18
13	Question 18 (Spare copy)
14	Question 19
15	Question 21
16	Question 23
17	Question 24
18	Question 24 (Spare copy)

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.

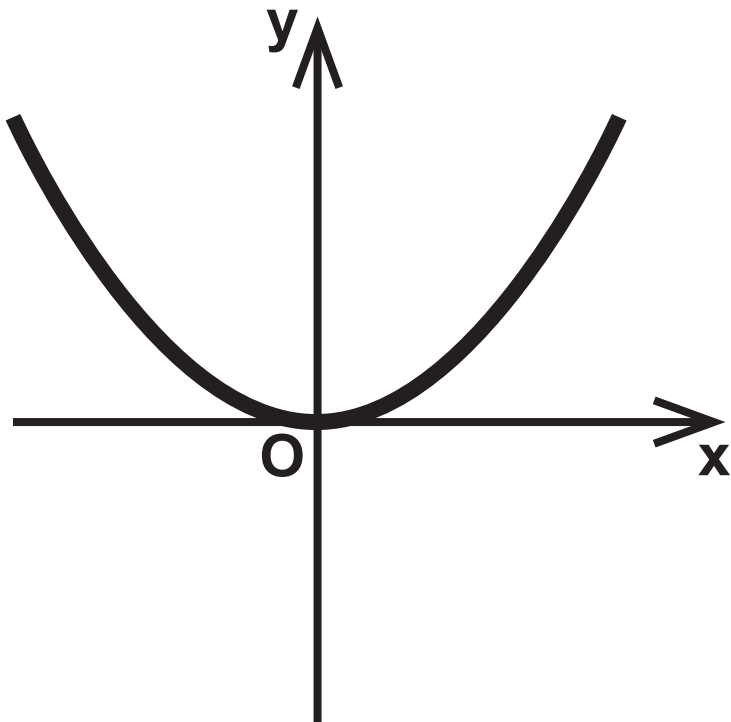
The ratio of the number of Tom's stamps to the number of Adam's stamps is now **3 : 5**

Question 4

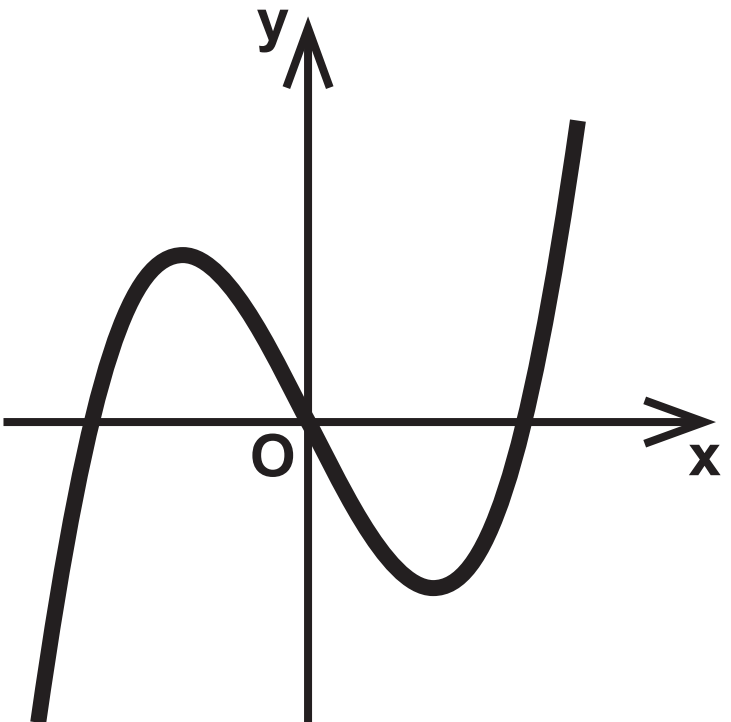
Gift	Number of people
sports bag	17
gym towel	7
headphones	11
voucher	15

Question 5

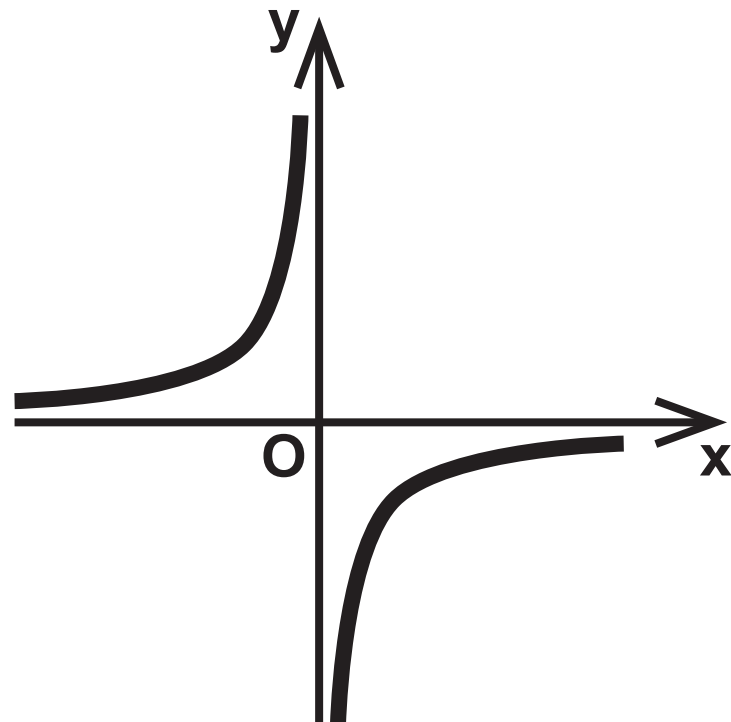
Graph A



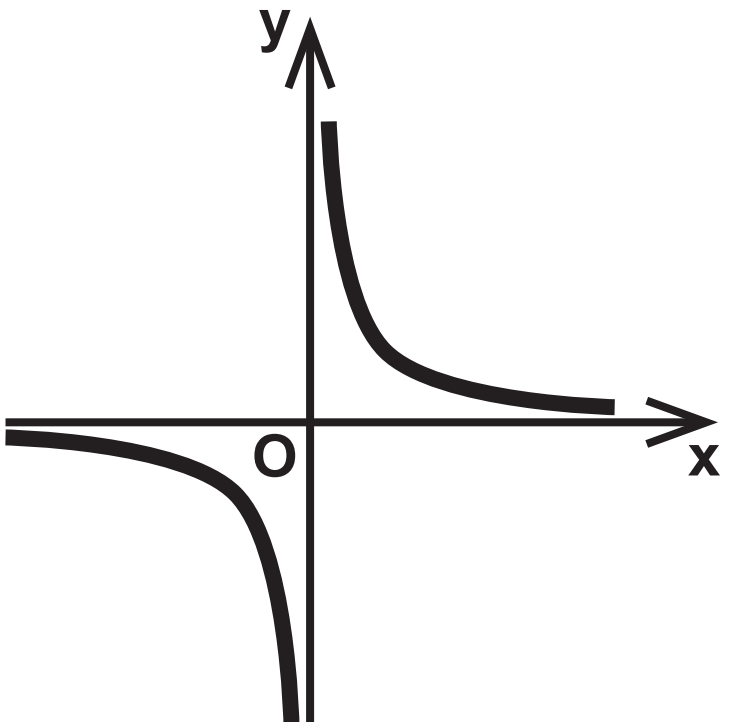
Graph B



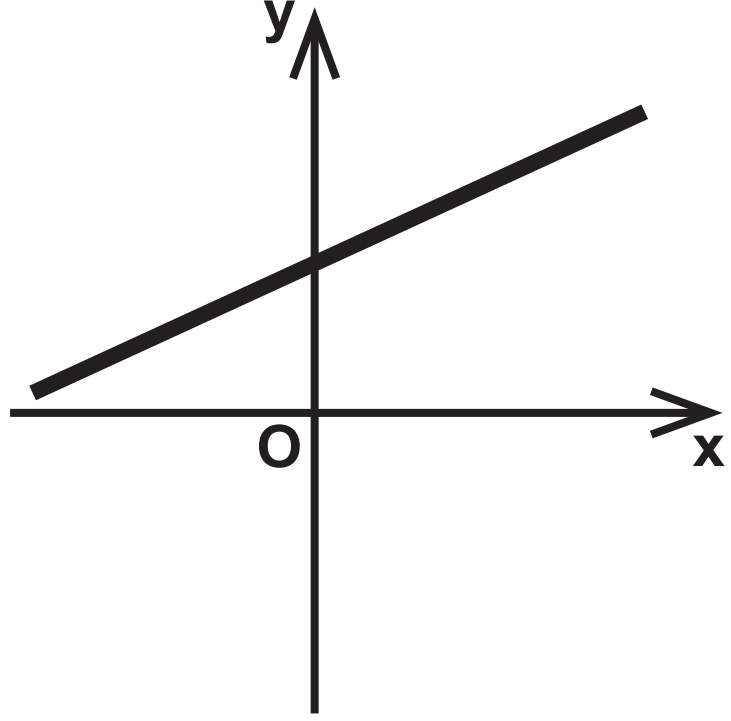
Graph C



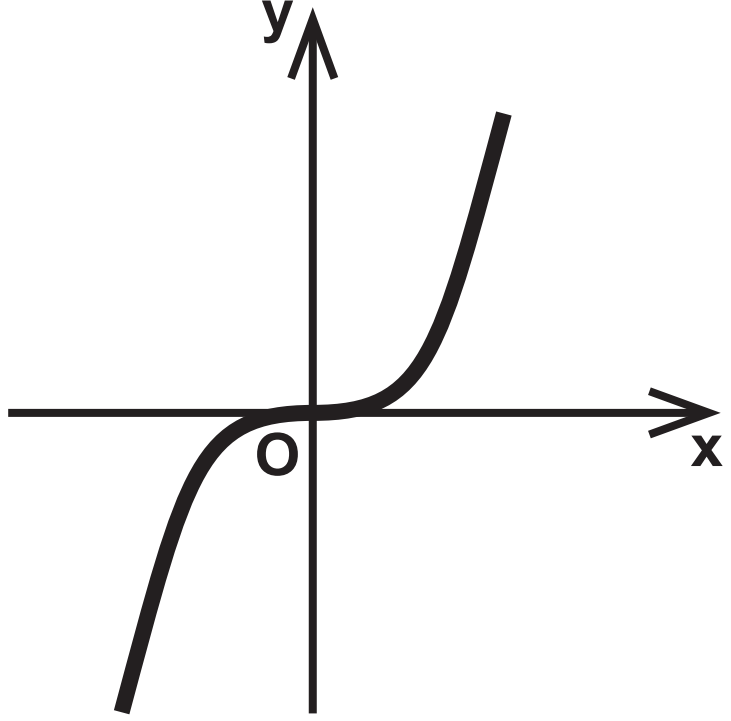
Graph D



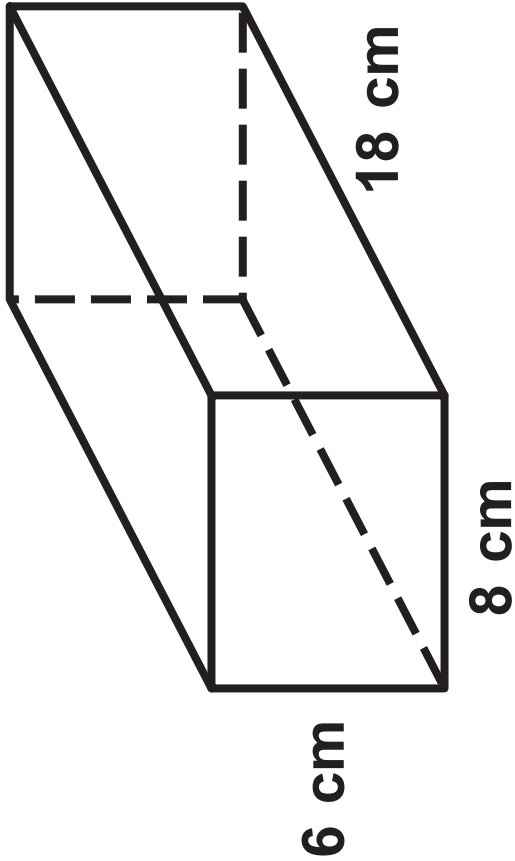
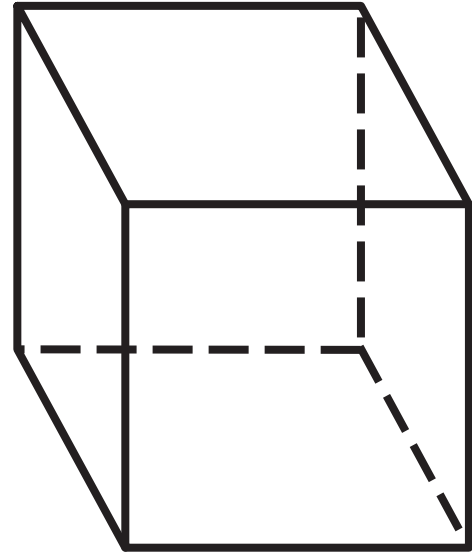
Graph E



Graph F



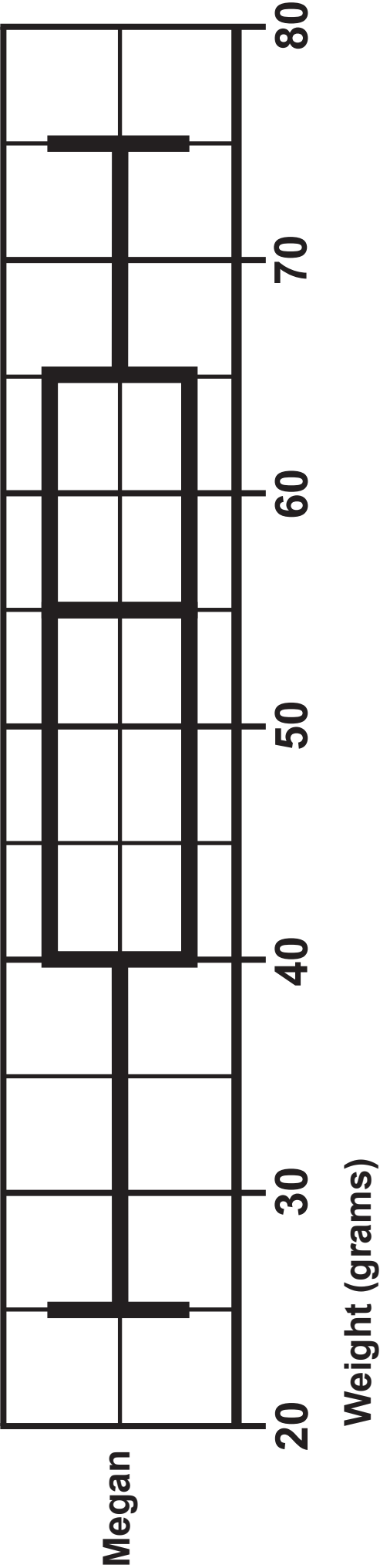
Question 9



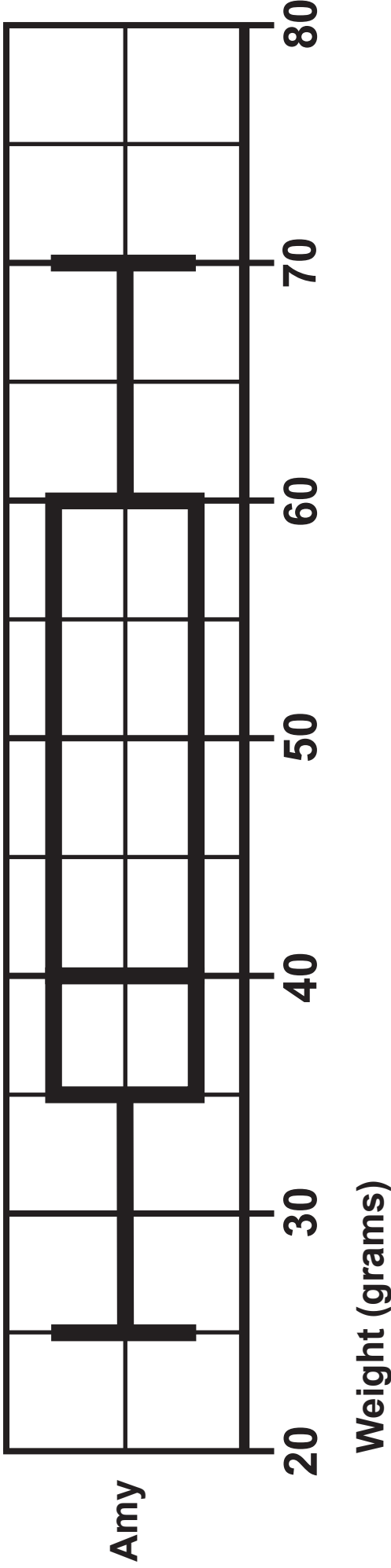


Question 11

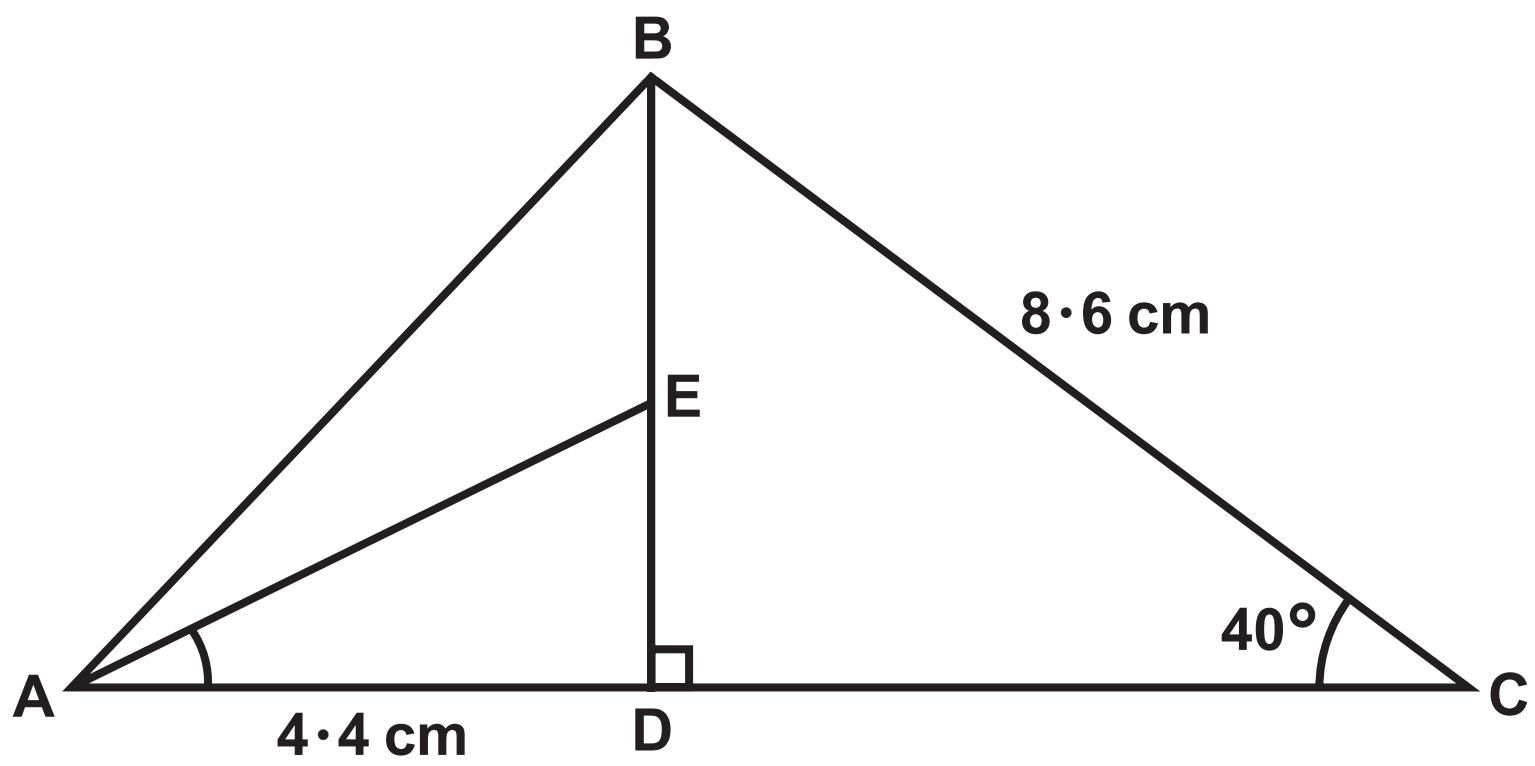
Box Plot M



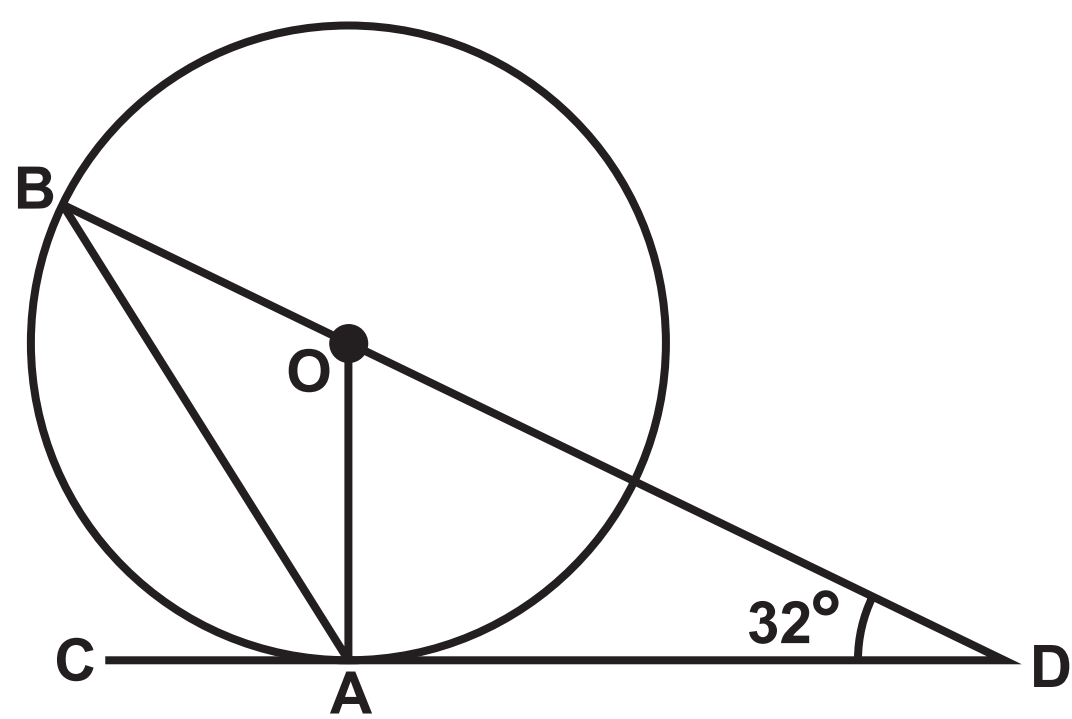
Box Plot A



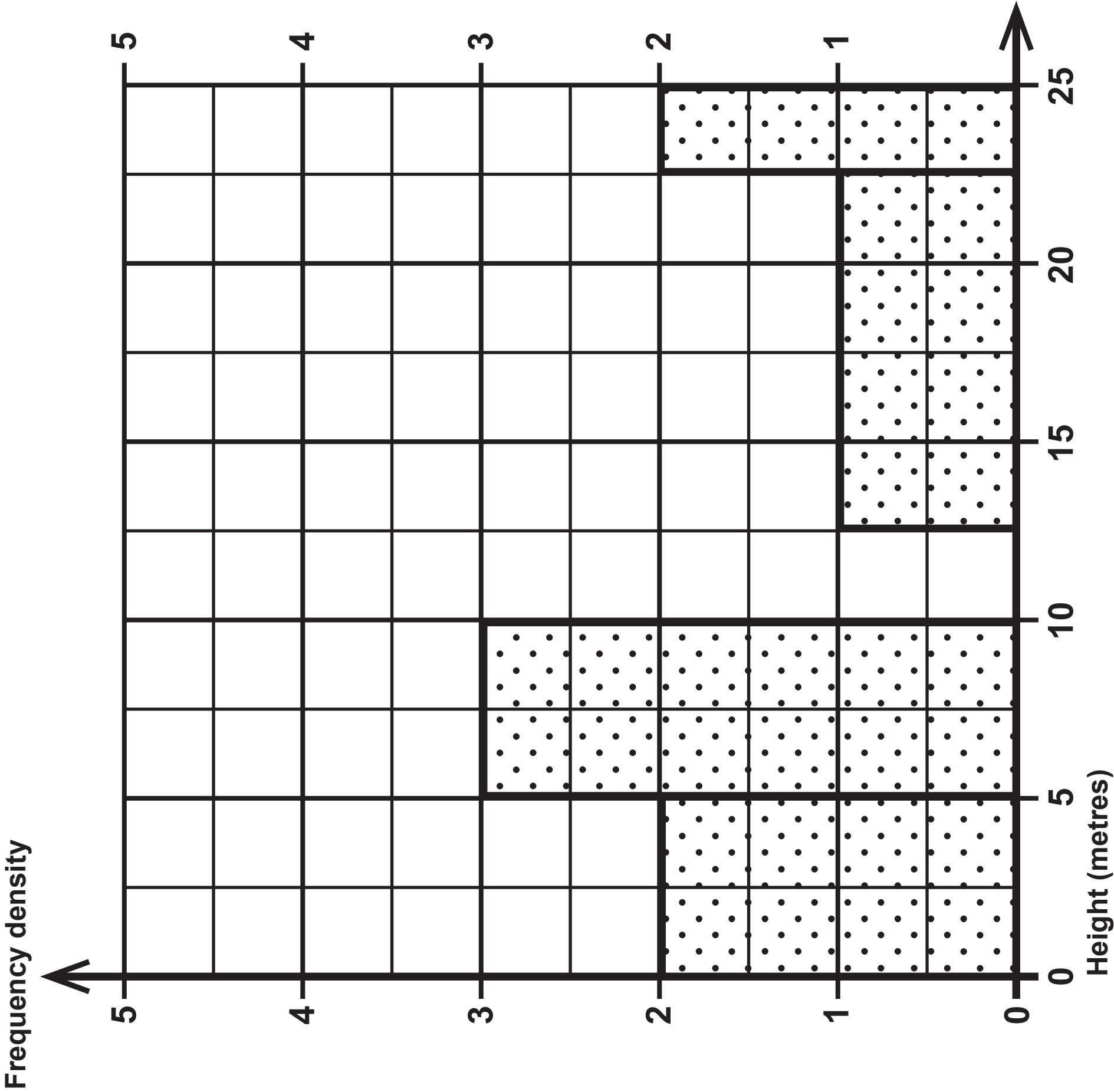
## Question 12



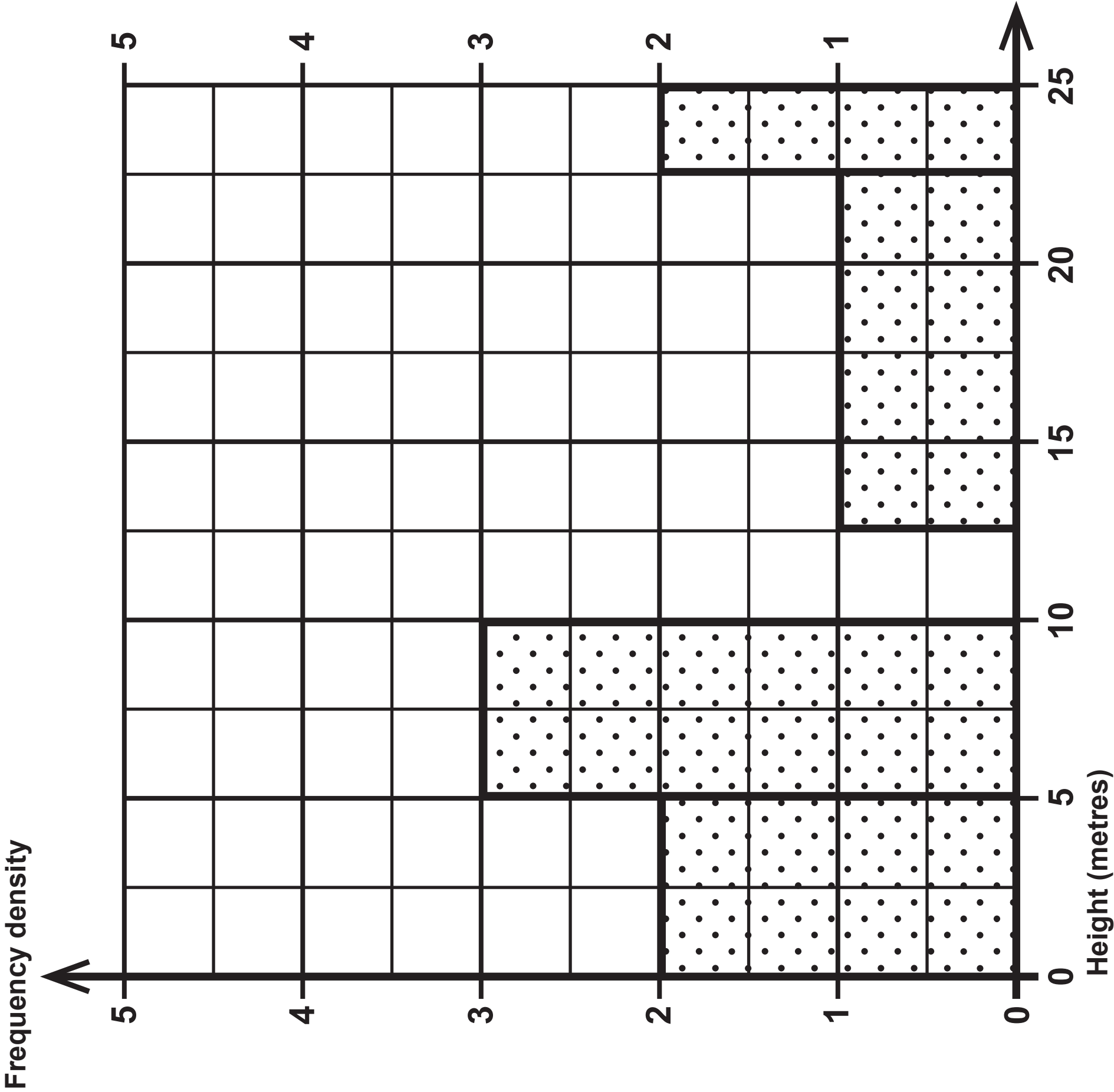
Question 17



Question 18



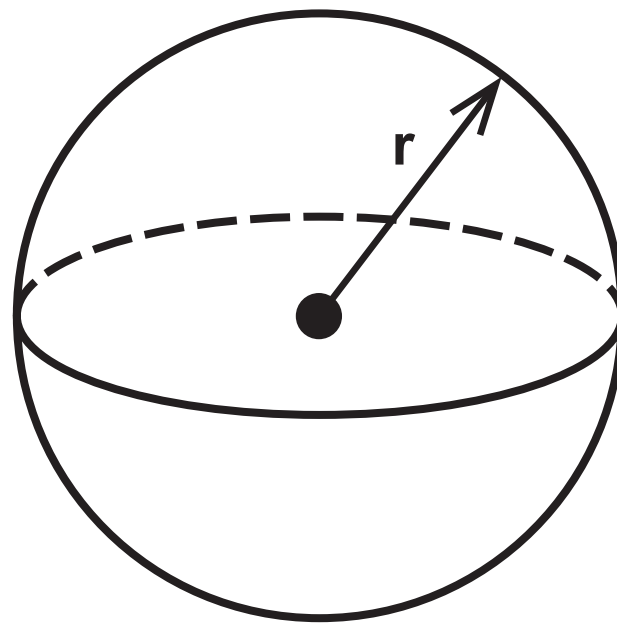
Question 18



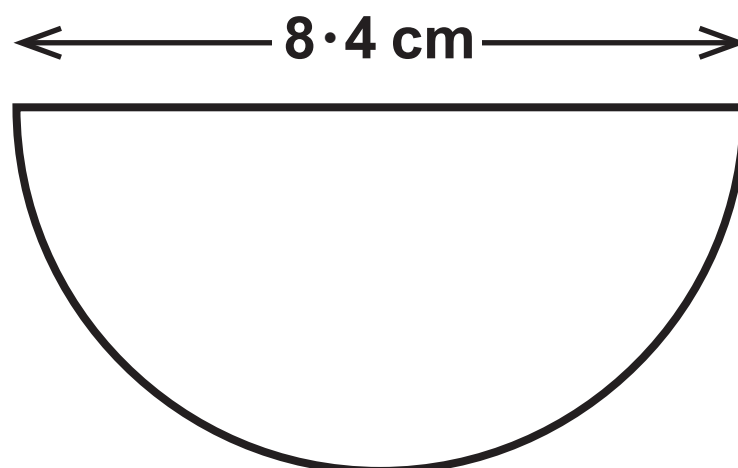
## Question 19

## Formula

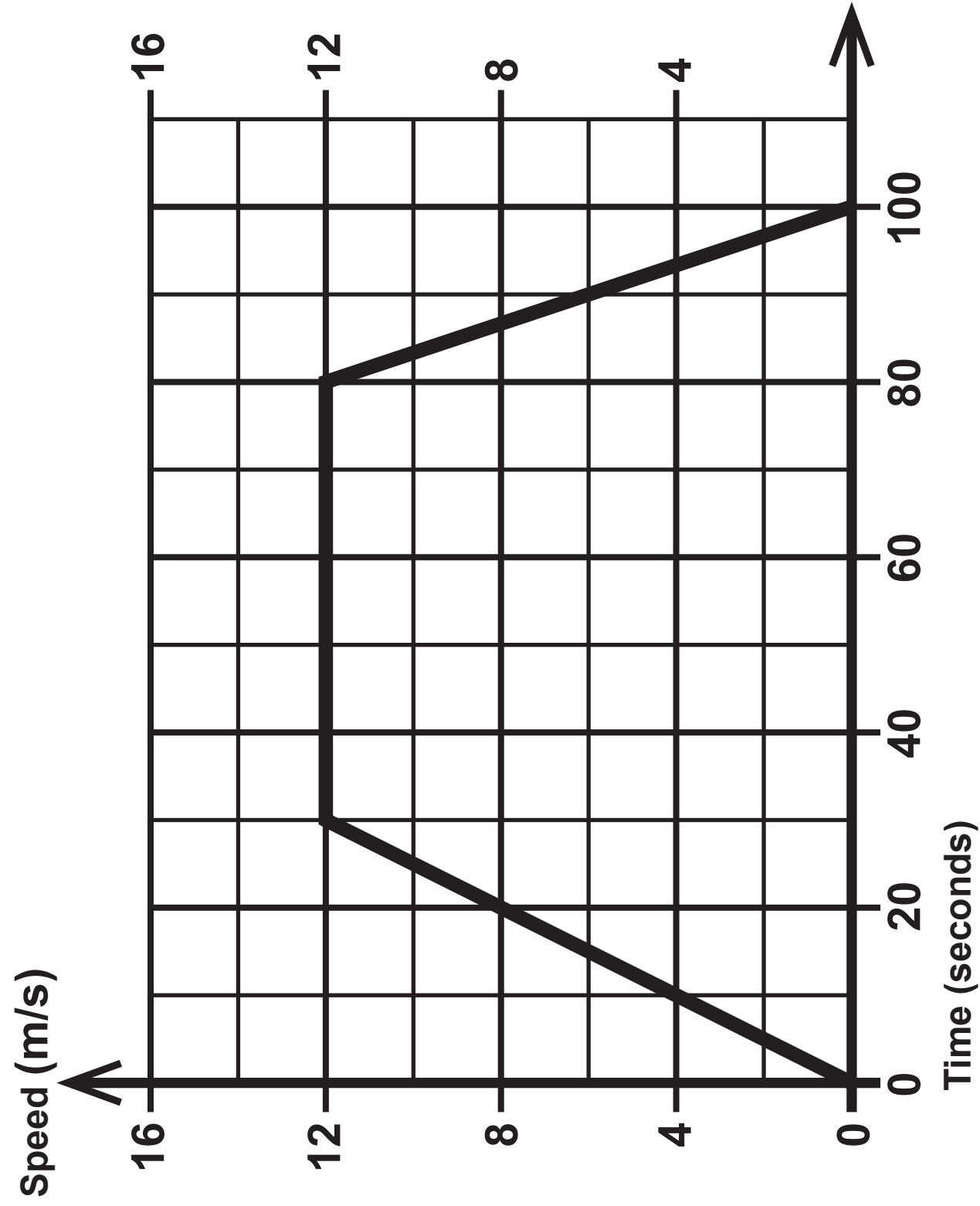
$$\text{Volume of sphere} = \frac{4}{3}\pi r^3$$



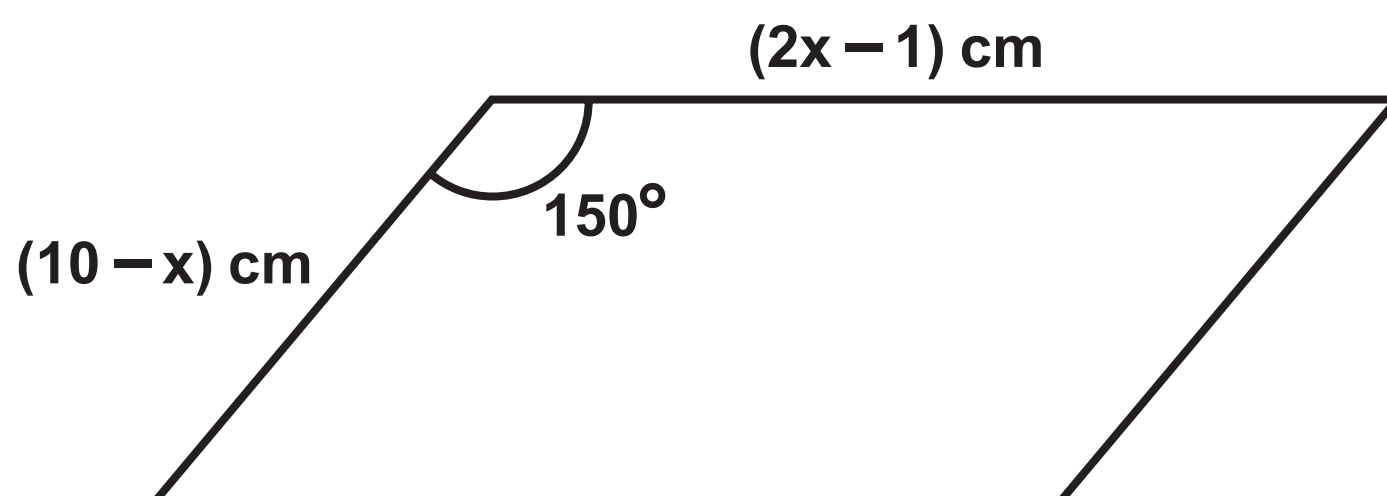
## Hemisphere



Question 21

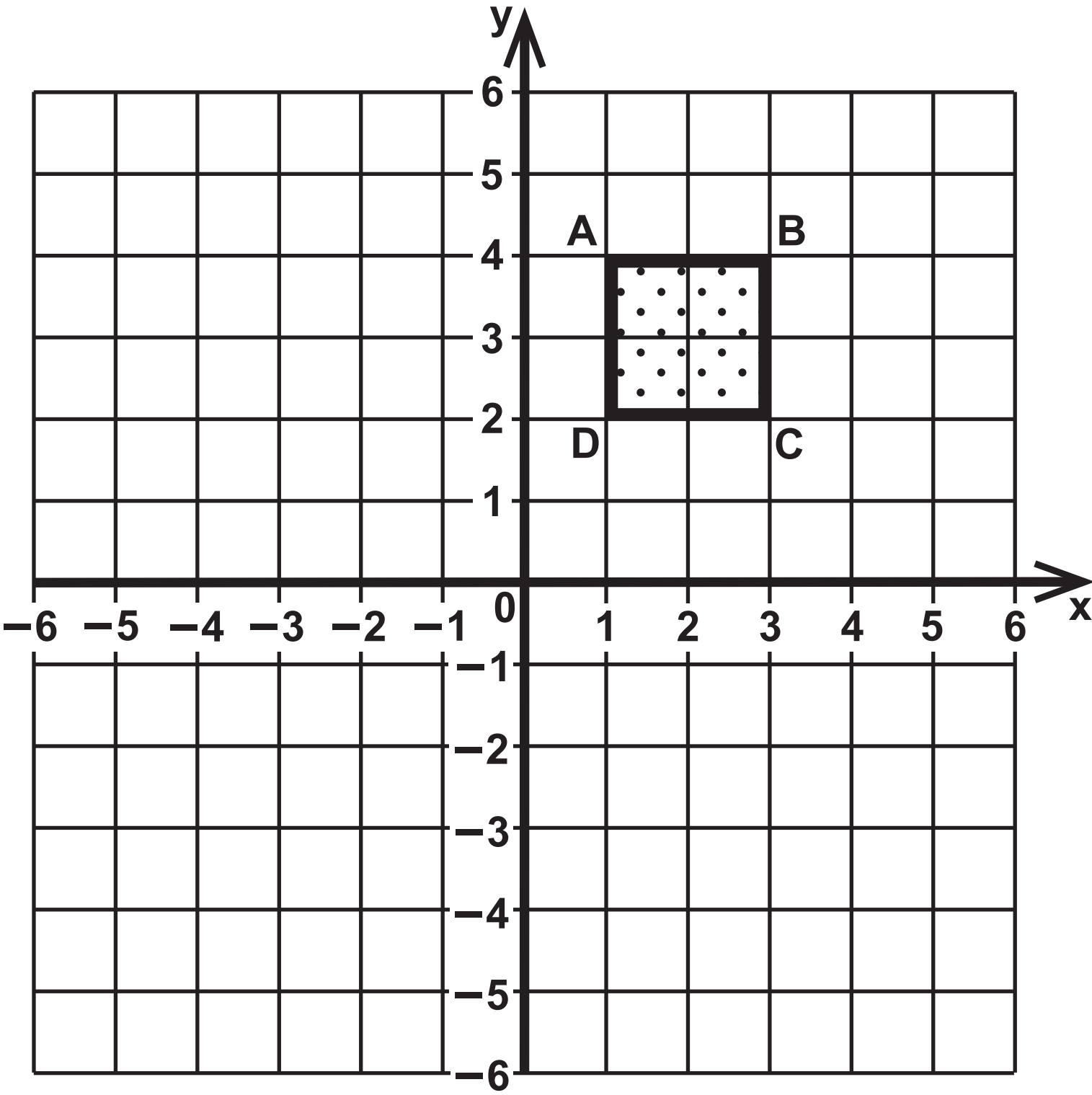


## Question 23





Question 24



Question 24

