

**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.**

<b>Surname</b>					
<b>Other names</b>					
<b>Centre Number</b>					
<b>Candidate Number</b>					

# INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

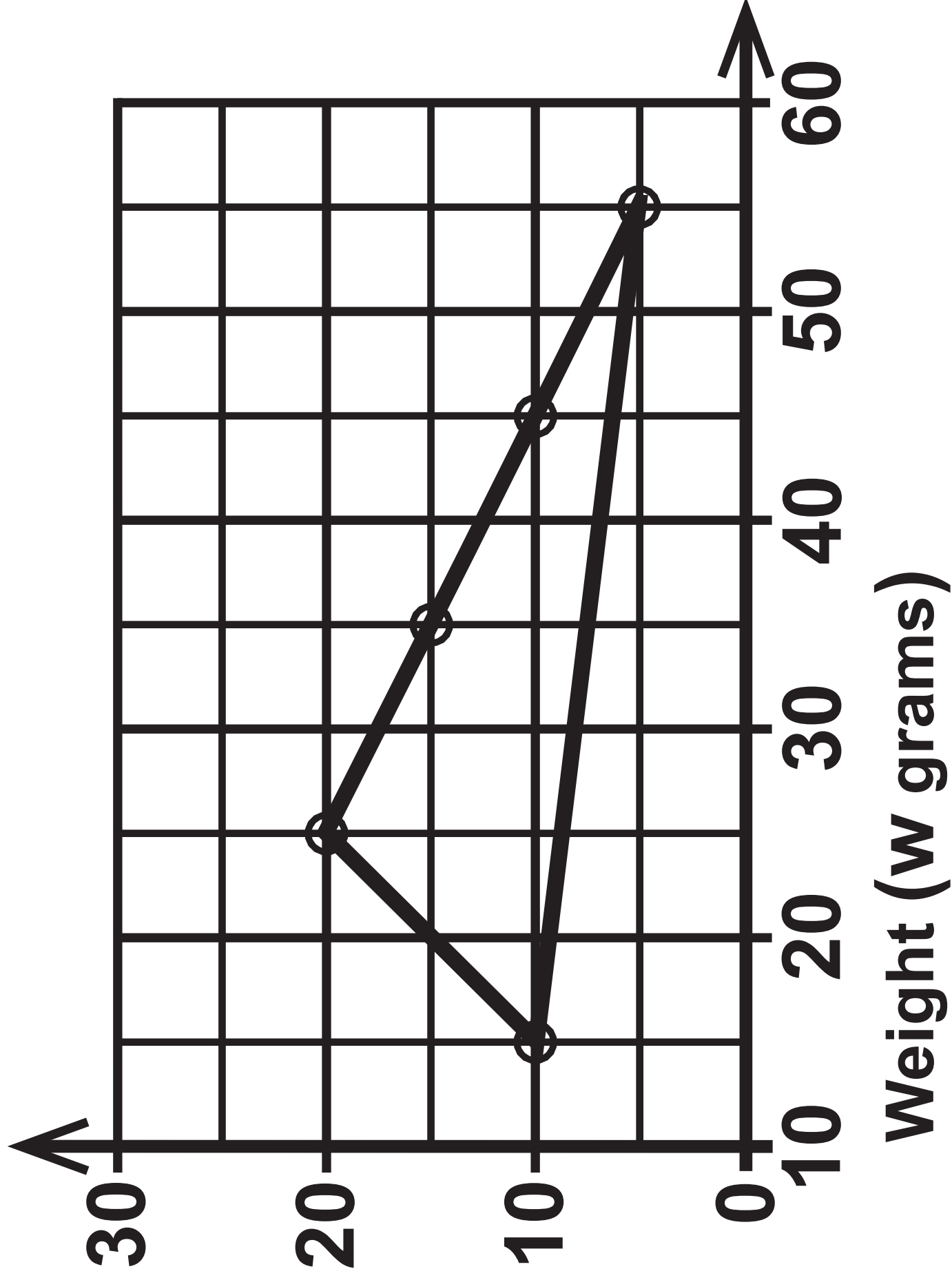
**THIS DIAGRAM BOOK MUST BE  
RETURNED WITH THE QUESTION  
PAPER AT THE END OF THE  
EXAMINATION.**

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Question 1



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

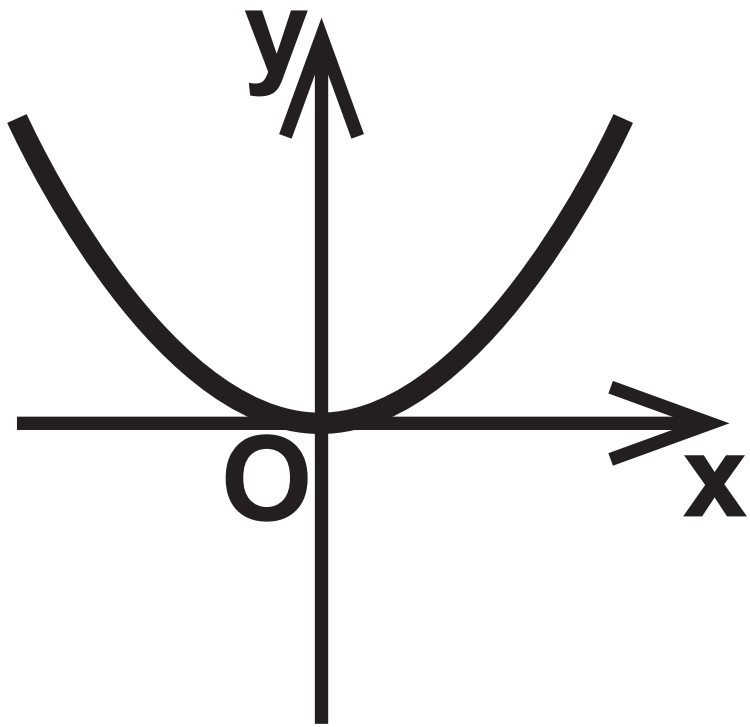
**The ratio of the number of Tom's stamps to the number of Adam's stamps is 3 : 7**

**Tom buys some stamps from Adam.**

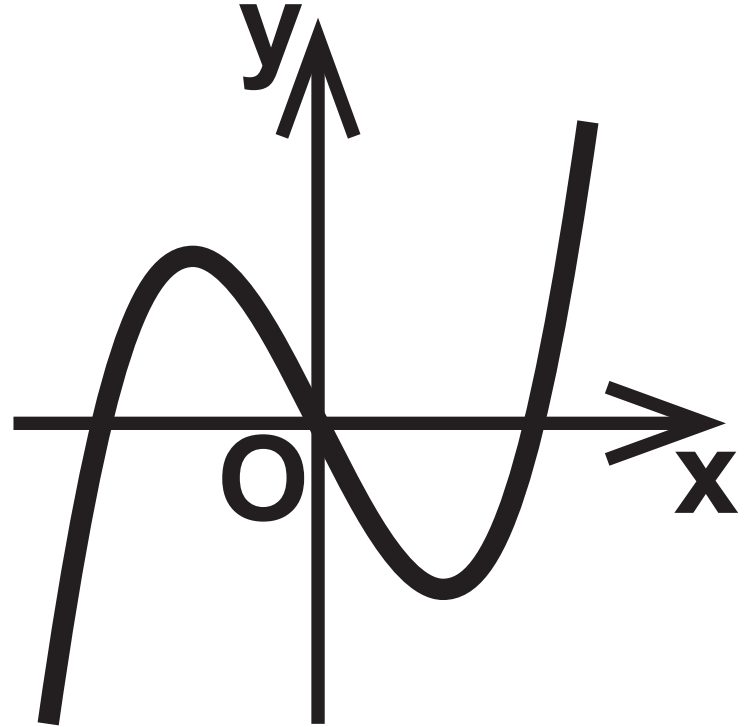
**The ratio of the number of Tom's stamps to the number of Adam's stamps is now 3 : 5**

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

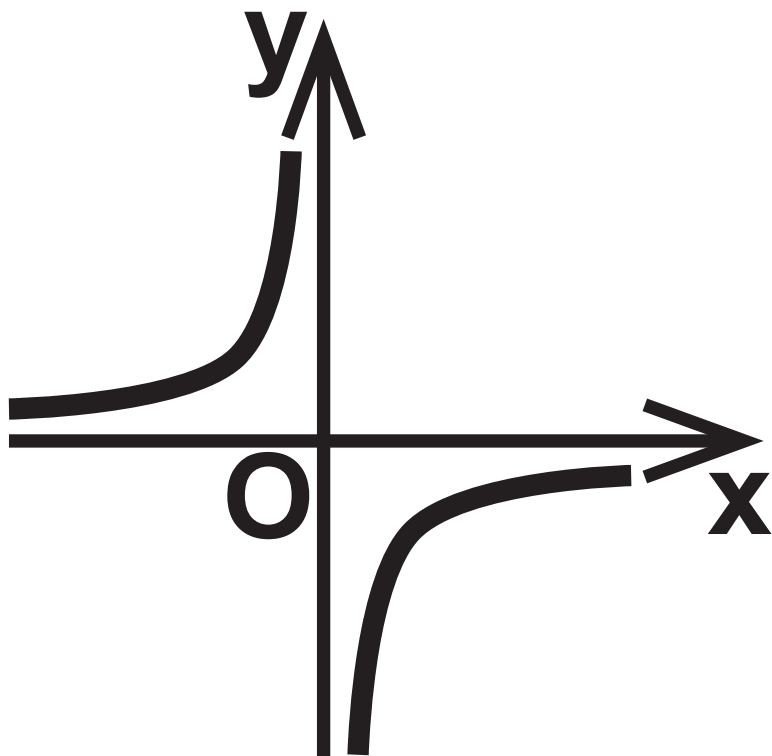
Graph A



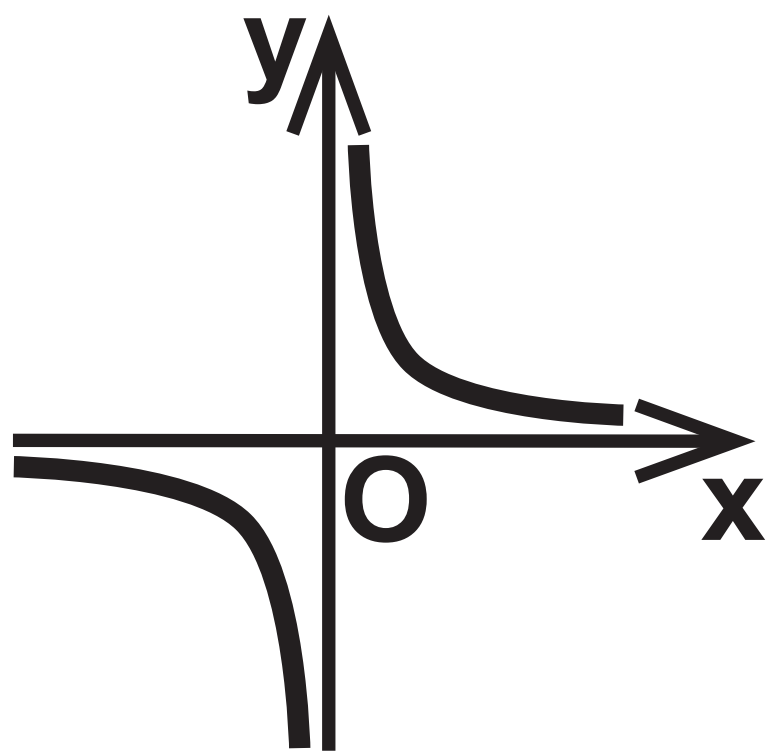
Graph B



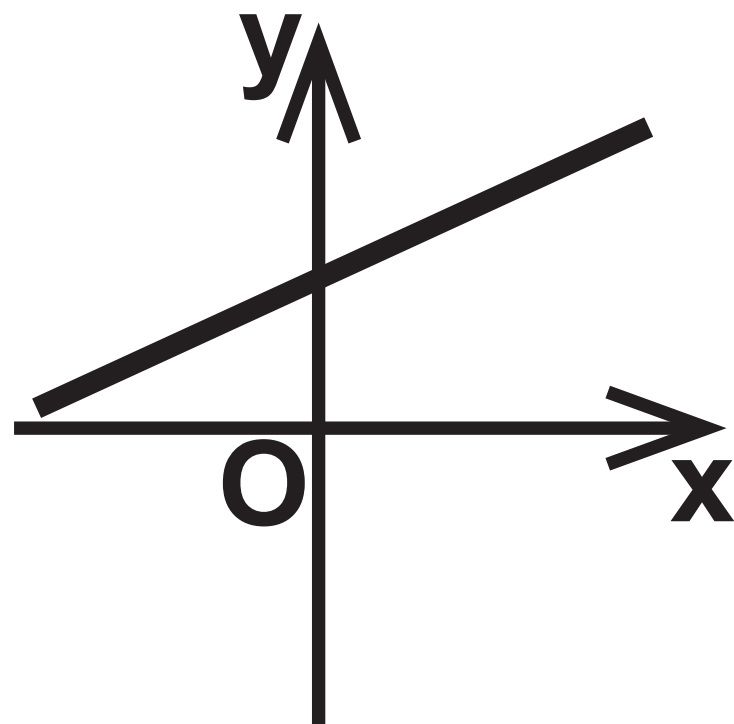
Graph C



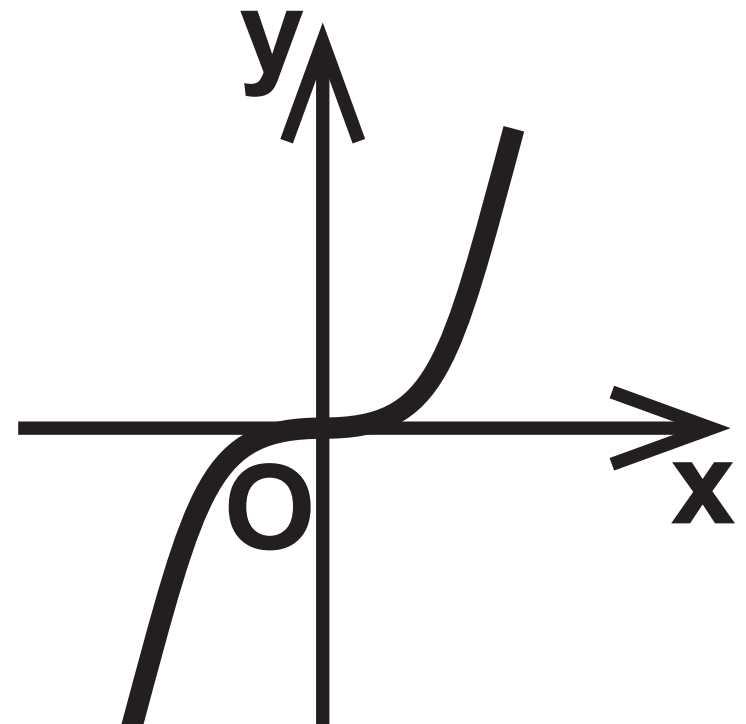
Graph D



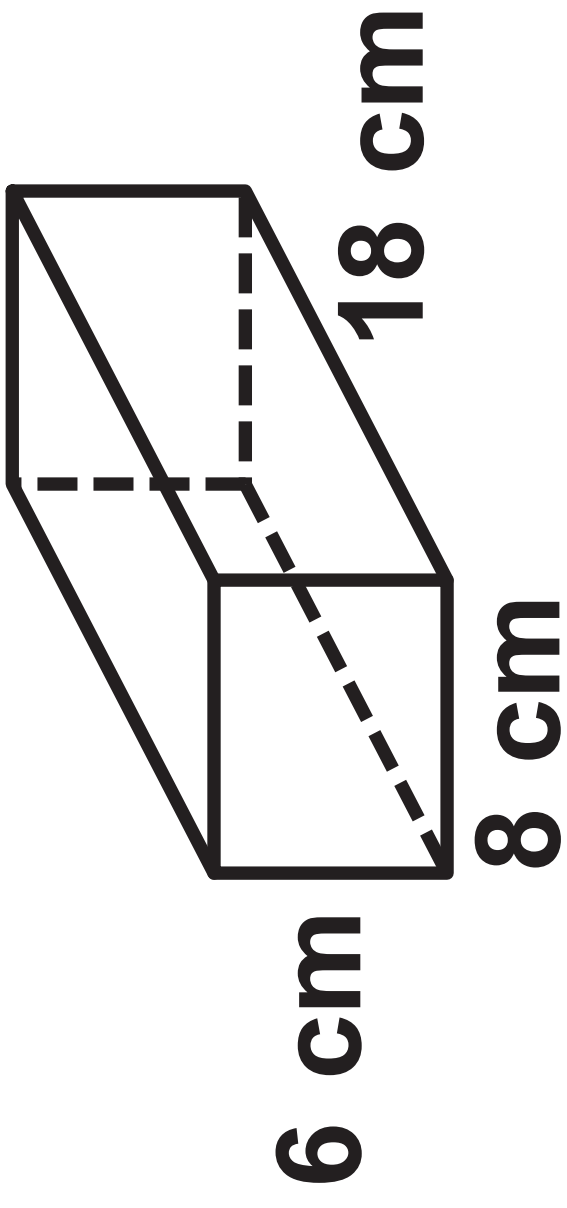
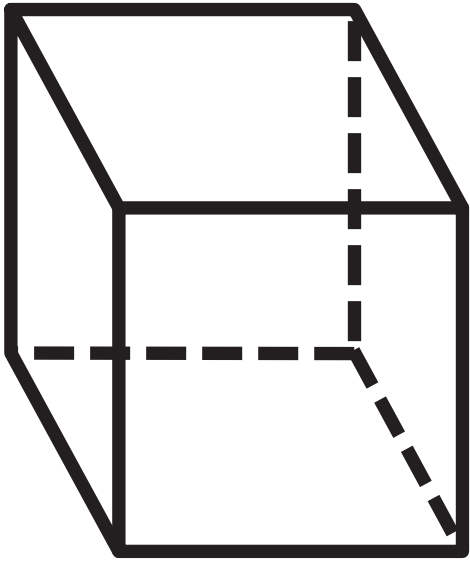
Graph E



Graph F



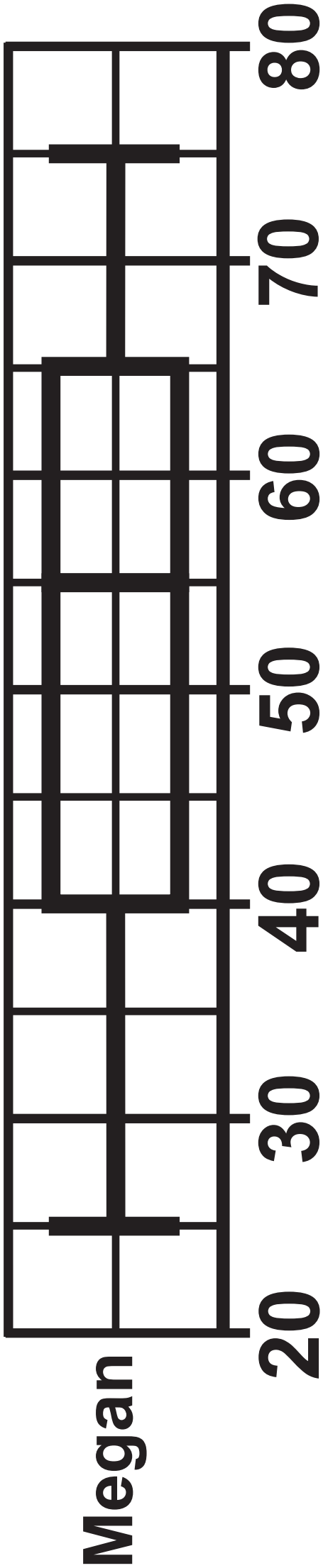
Question 9





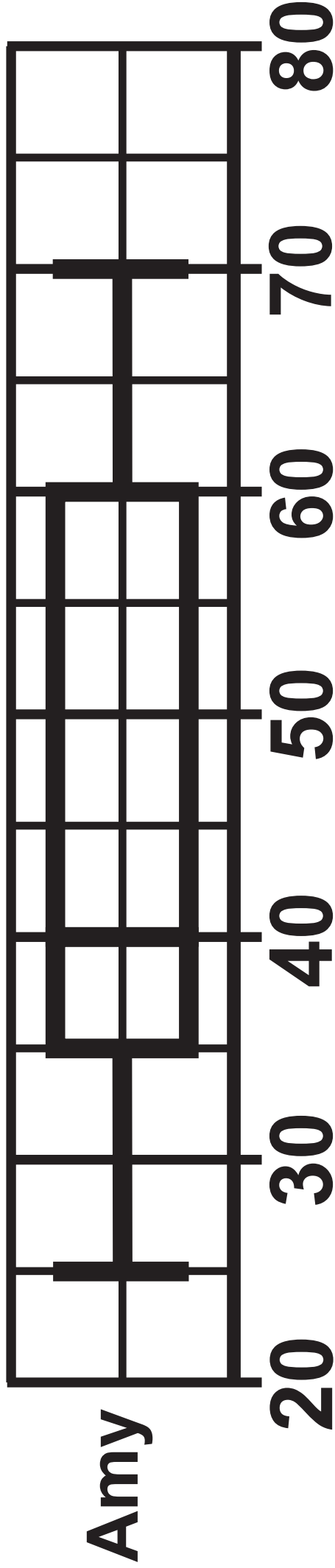
Question 11

Box Plot M

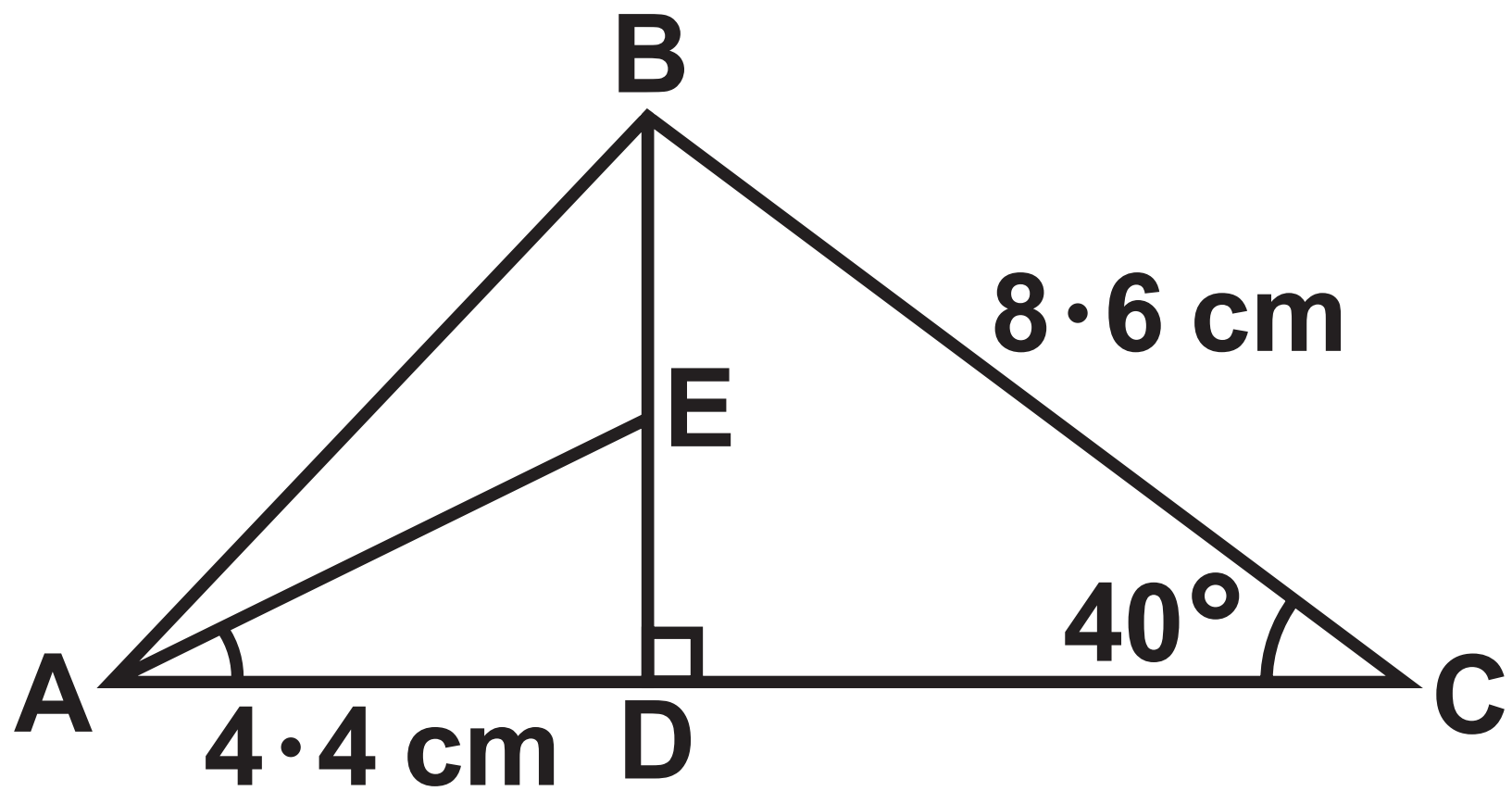


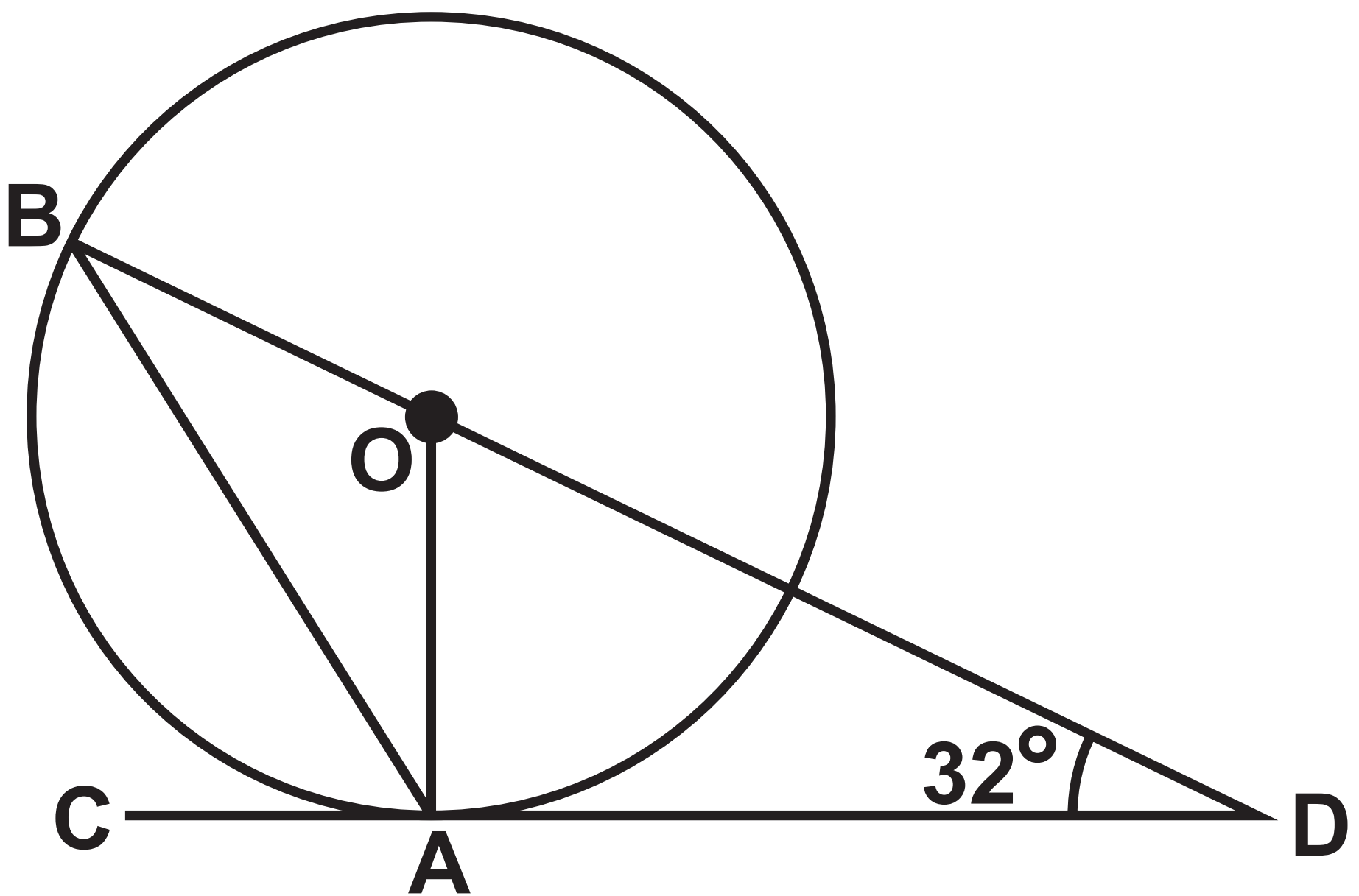
Weight (grams)

Box Plot A



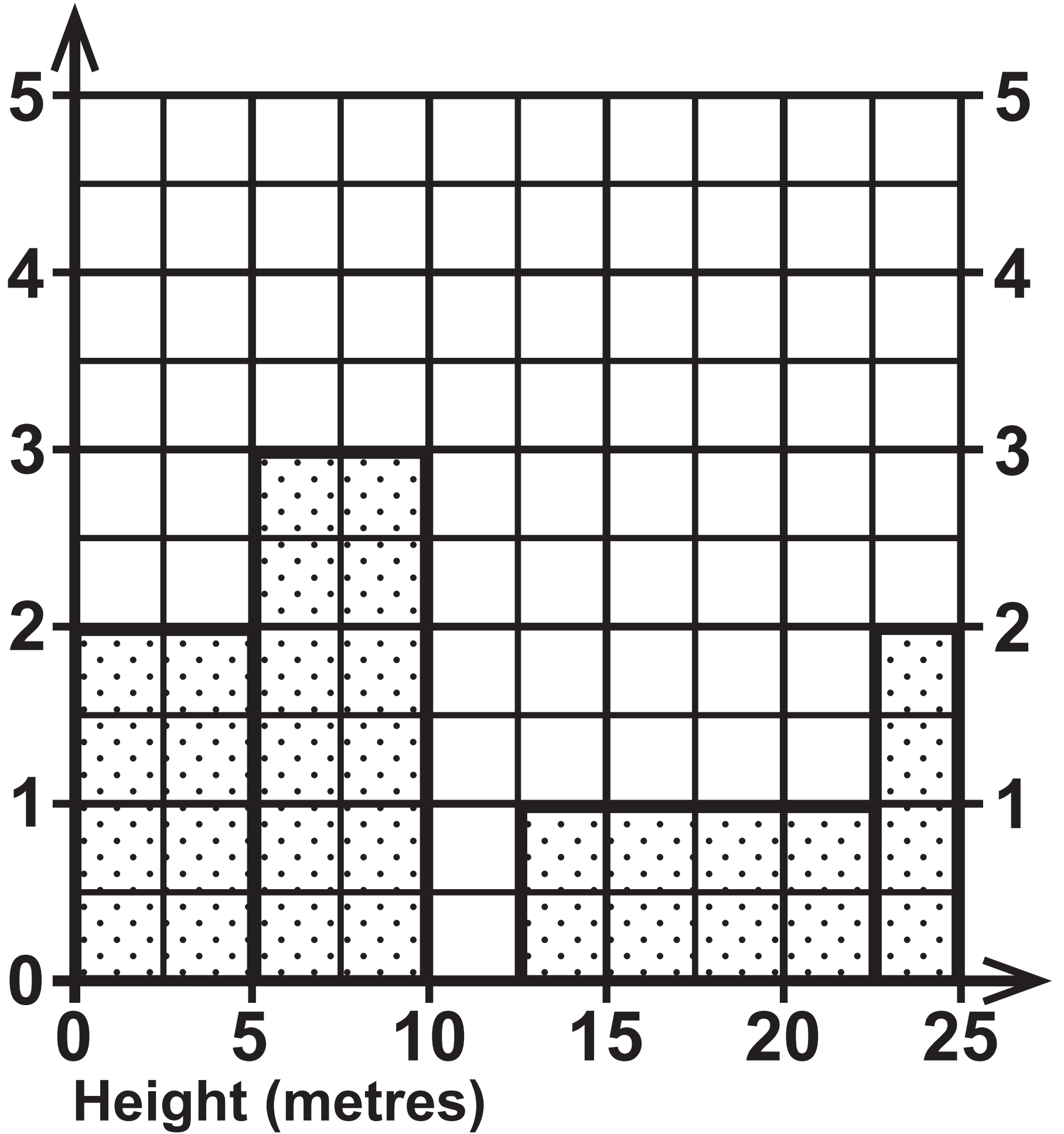
Weight (grams)





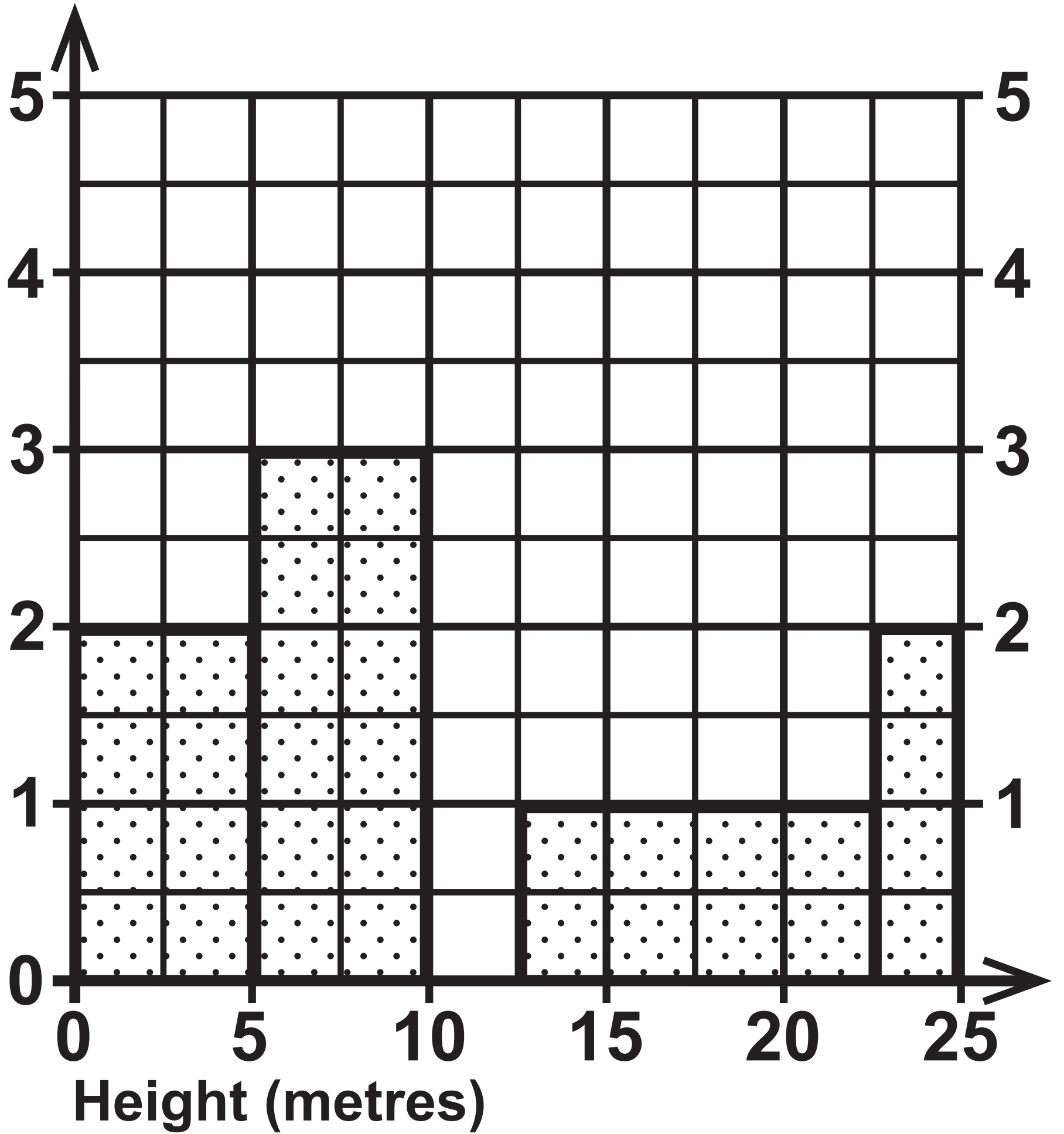
# Question 18

Frequency density



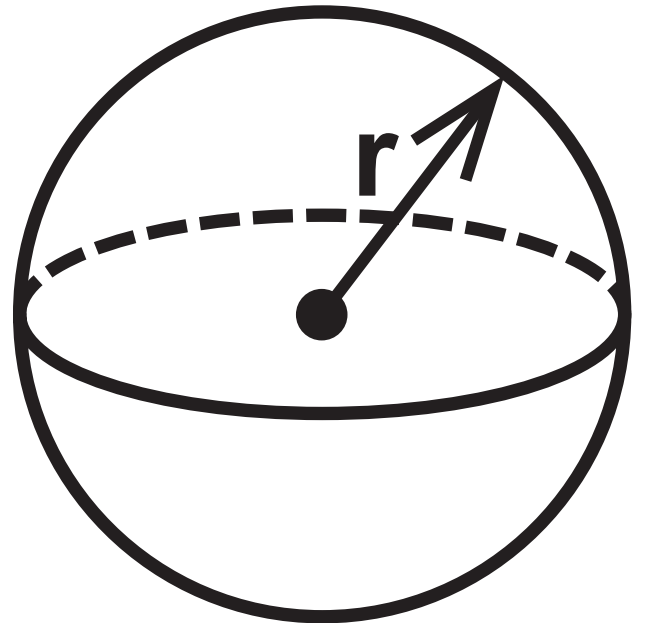
# Question 18

Frequency density

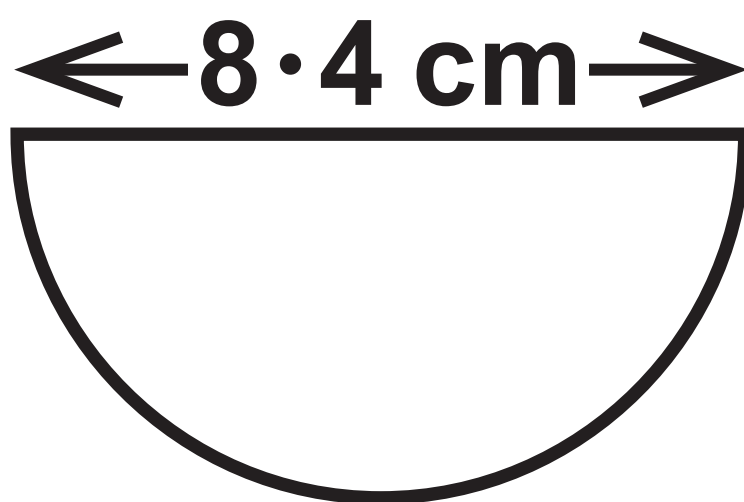


## Formula

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



## Hemisphere



Question 21

