

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

**Mathematics**  
**PAPER 1**  
**(Non–Calculator)**  
**Higher Tier**

**Diagram Booklet**

**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 BOOKLET MUST  
BE RETURNED WITH THE  
QUESTION PAPER AT THE END OF  
THE EXAMINATION.**

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Question 5

Car model	Number of people
A	23
B	15
C	30
D	12

## Question 7

$$\text{pressure} = \frac{\text{force}}{\text{area}}$$

Diagram 1

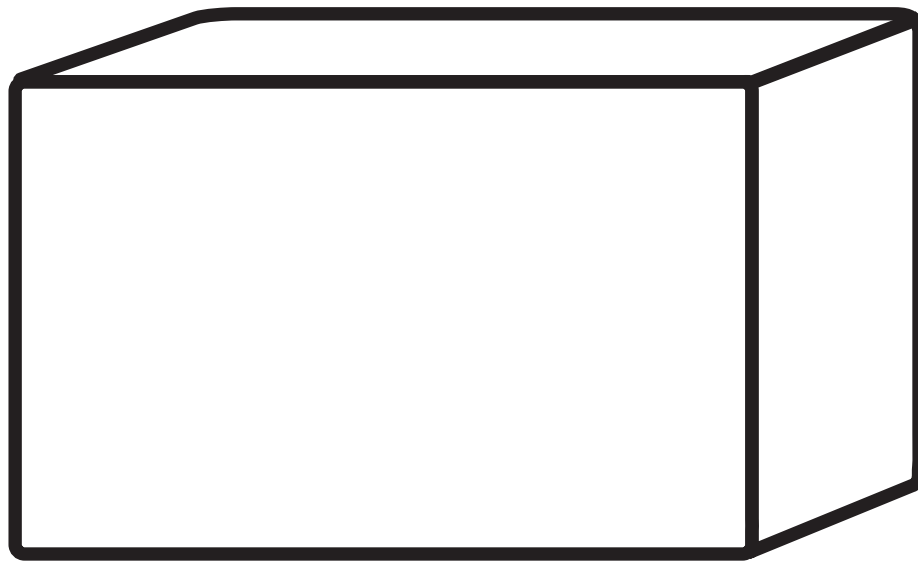
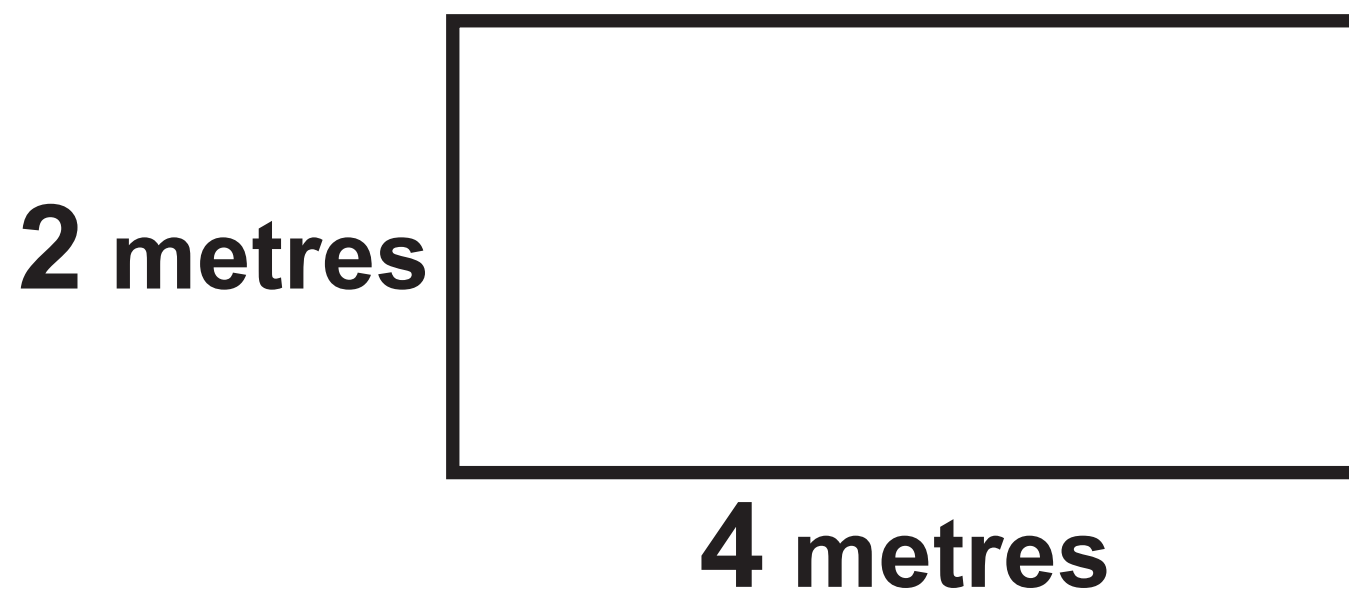
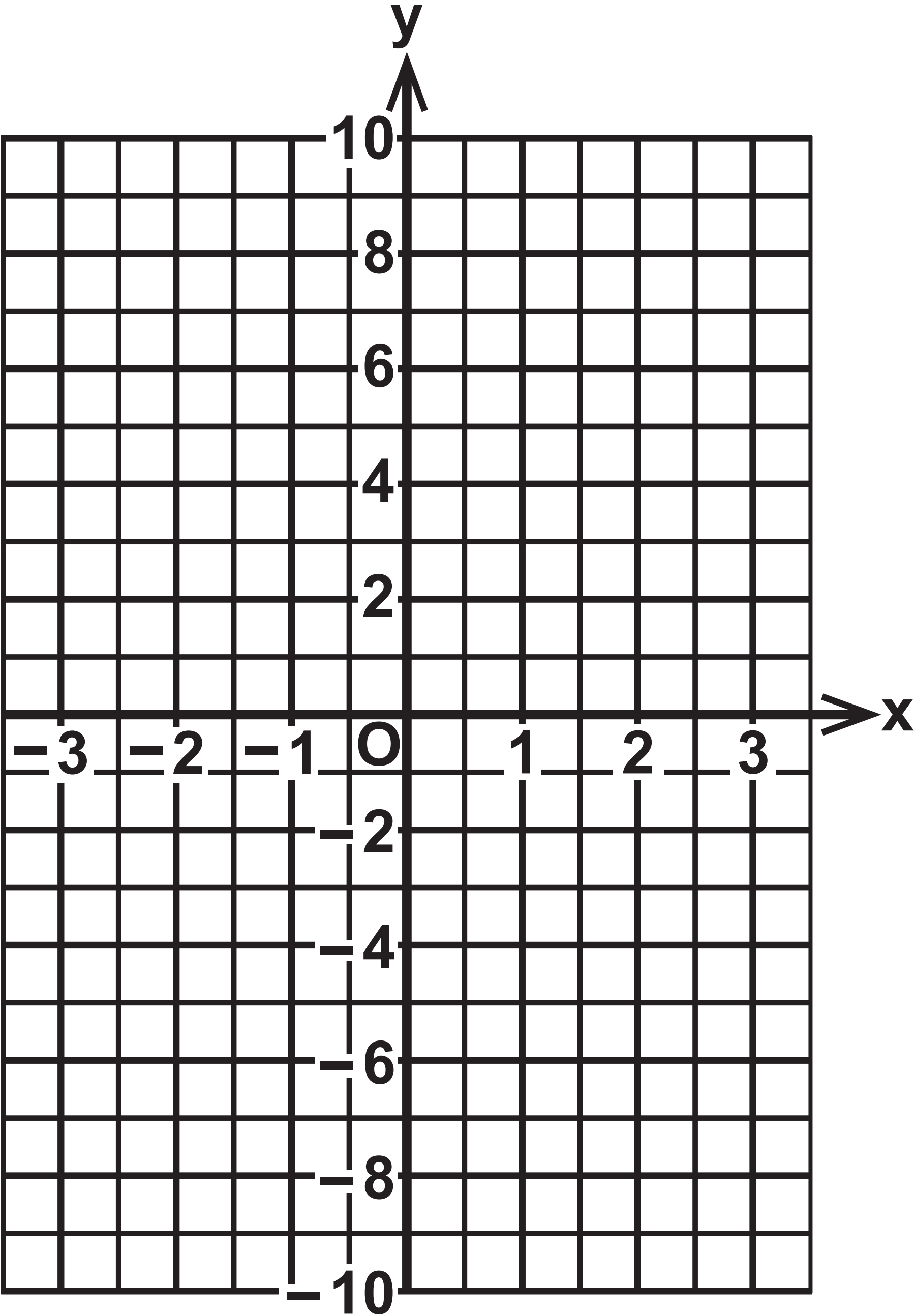


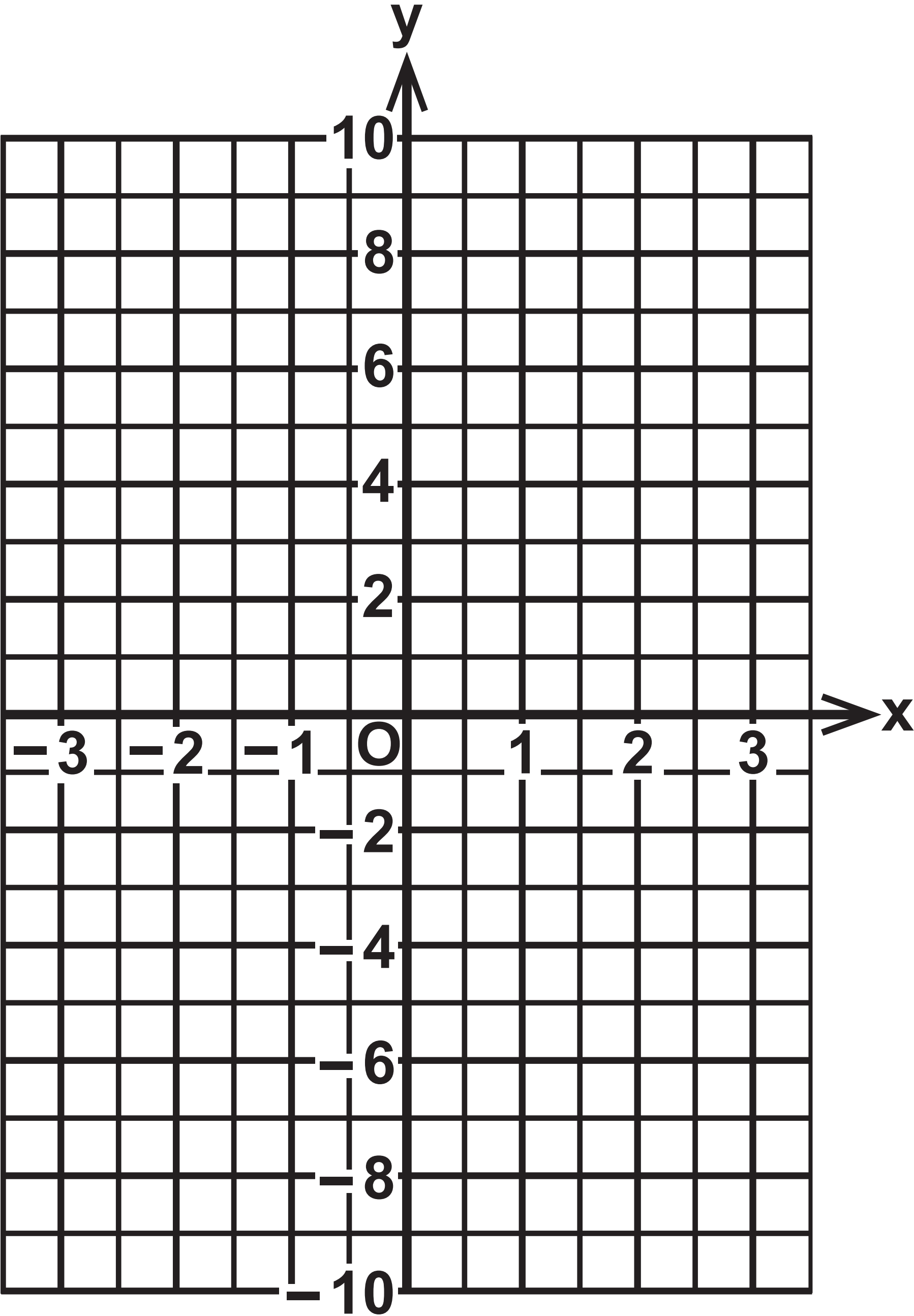
Diagram 2  
View of base



Question 9(b)



Question 9(b)



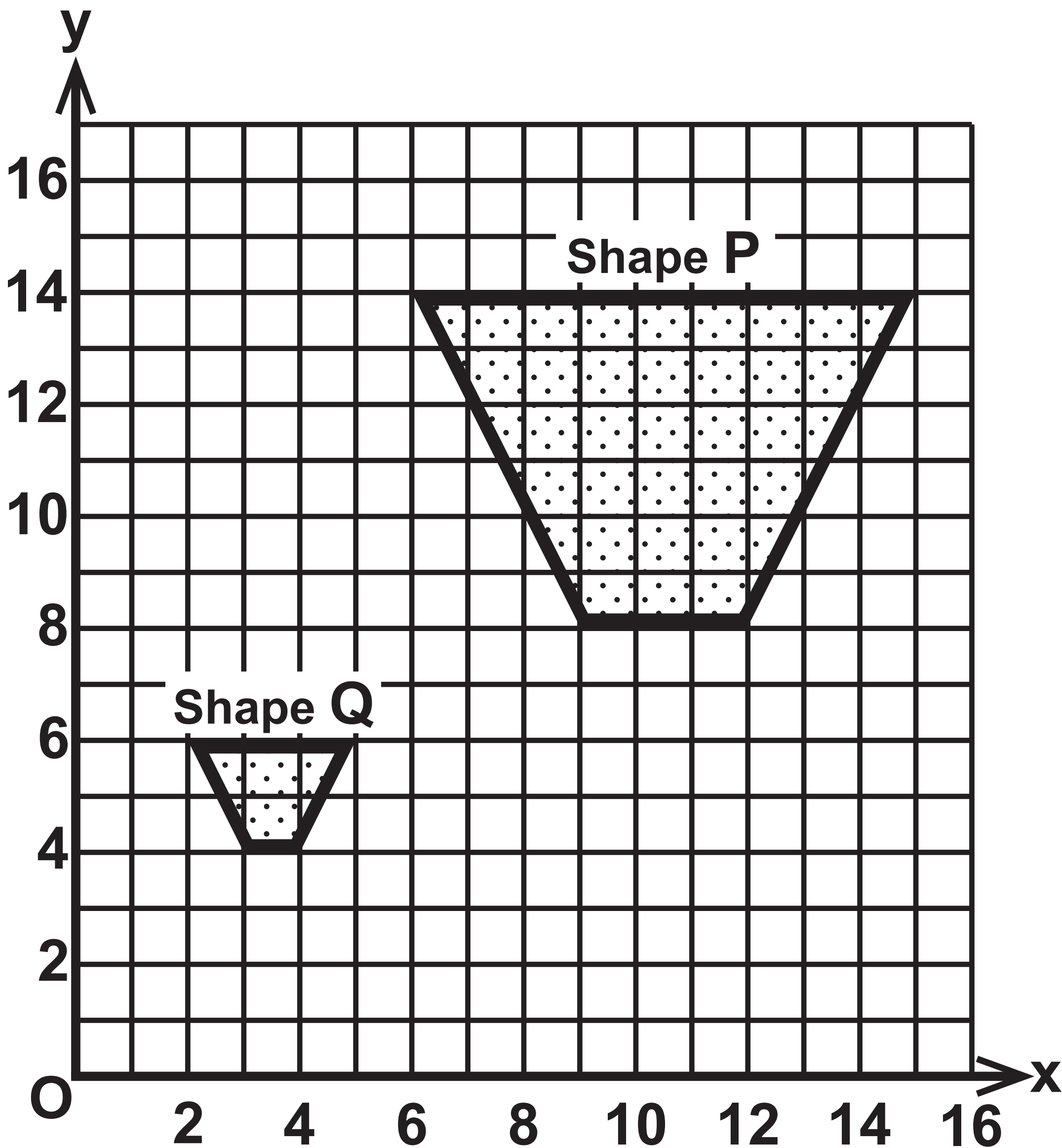
Question 10



Score	Frequency
1	6
2	8
3	9
4	7
5	10



## Question 11



# Question 13

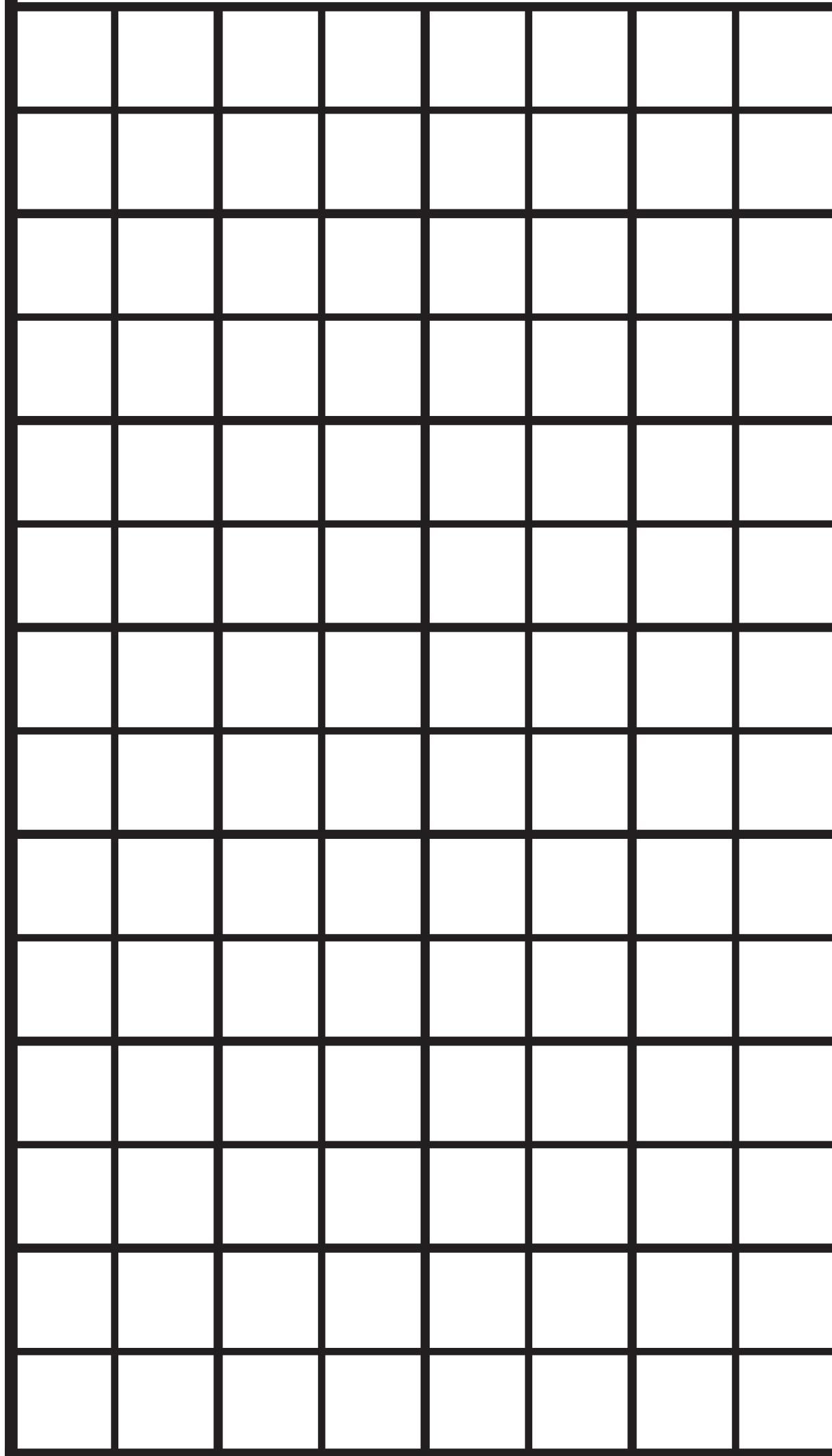
<b>t</b>	<b>p</b>
<b>100</b>	<b>1</b>
<b>25</b>	
	<b>5</b>
<b>2</b>	

Question 13

t	p
100	1
25	
	5
2	

# Question 14

Frequency  
density



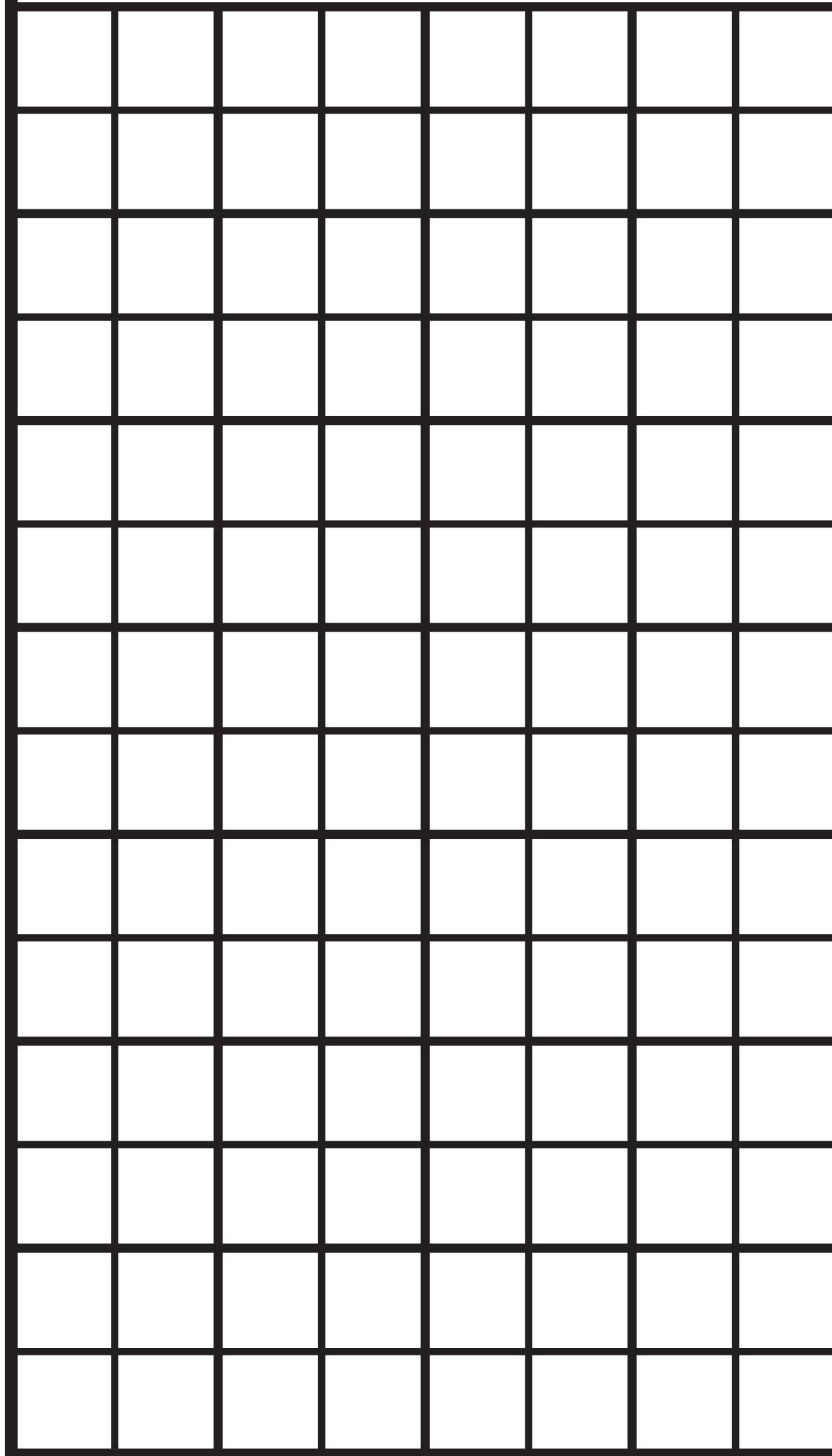
40 50 60 70 80 90 100 110 120

Weight (W grams)



# Question 14

Frequency  
density

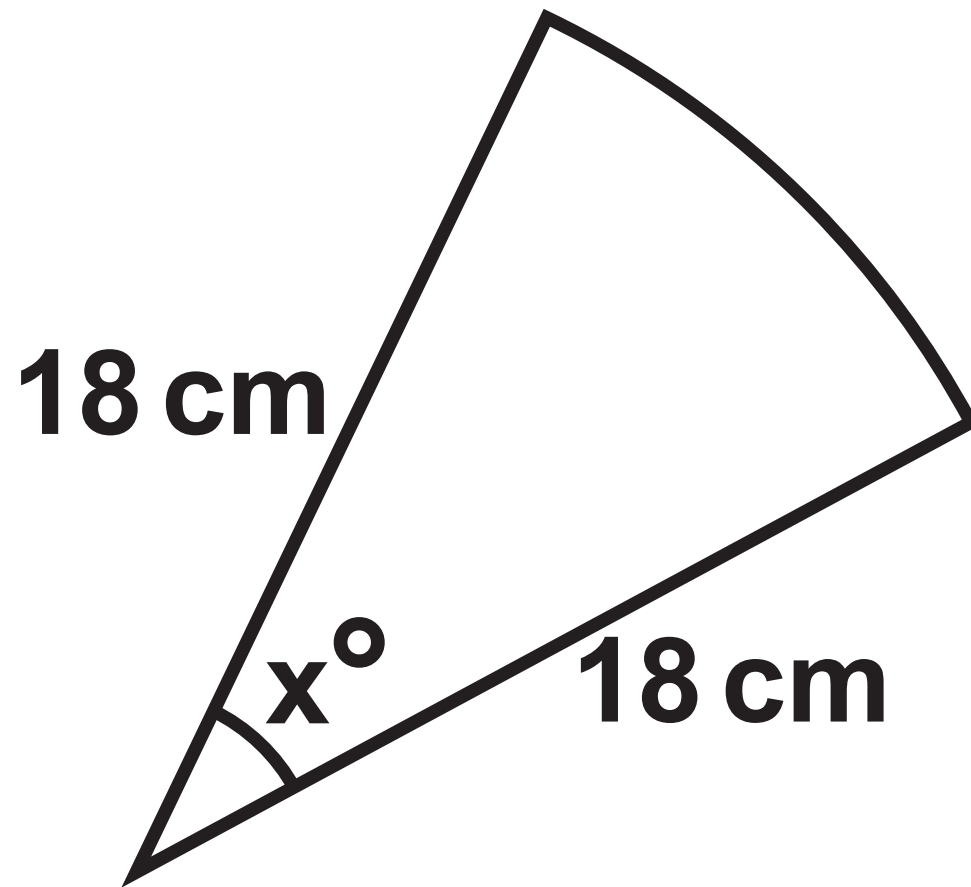


40 50 60 70 80 90 100 110 120

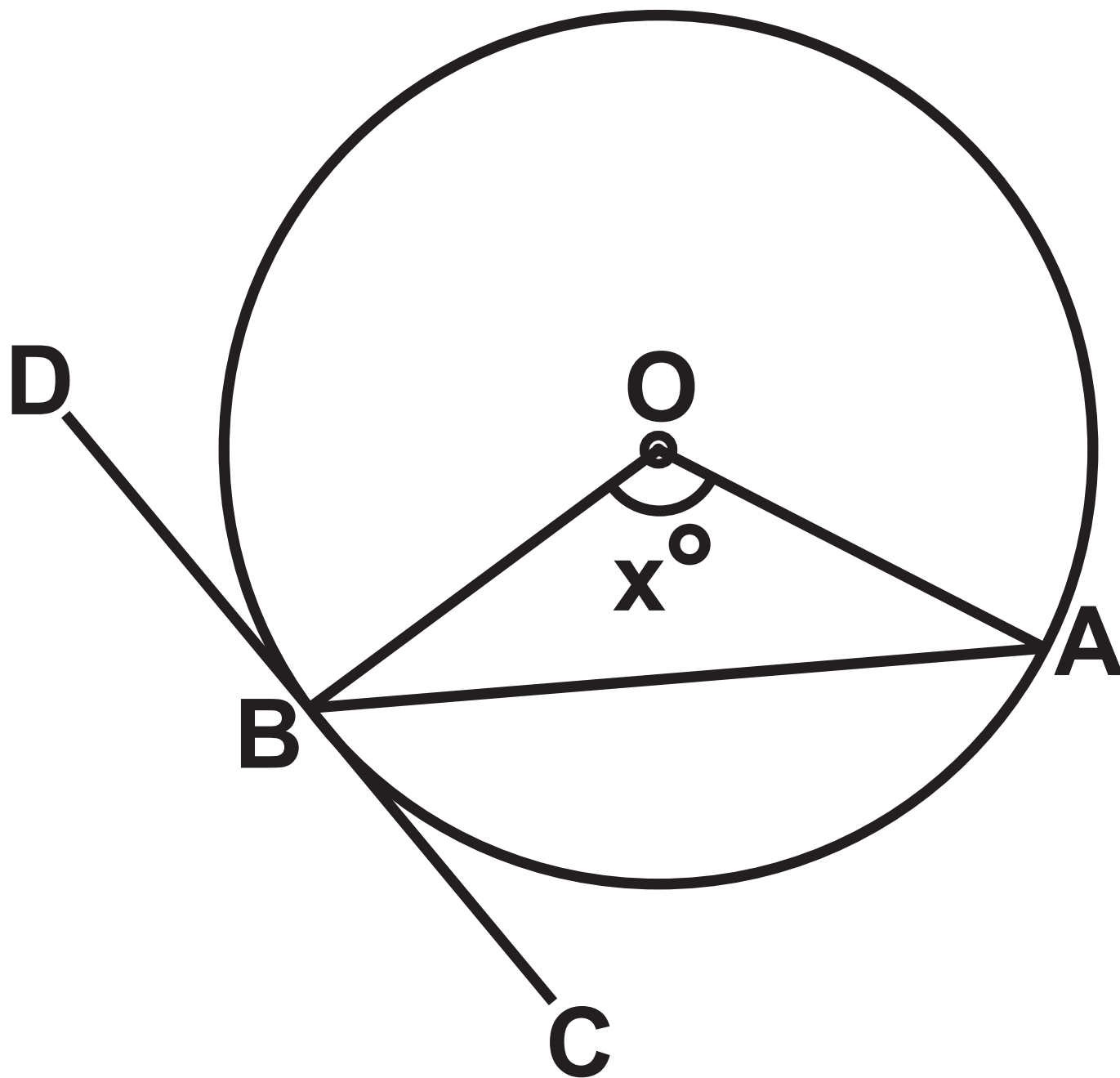
Weight (W grams)



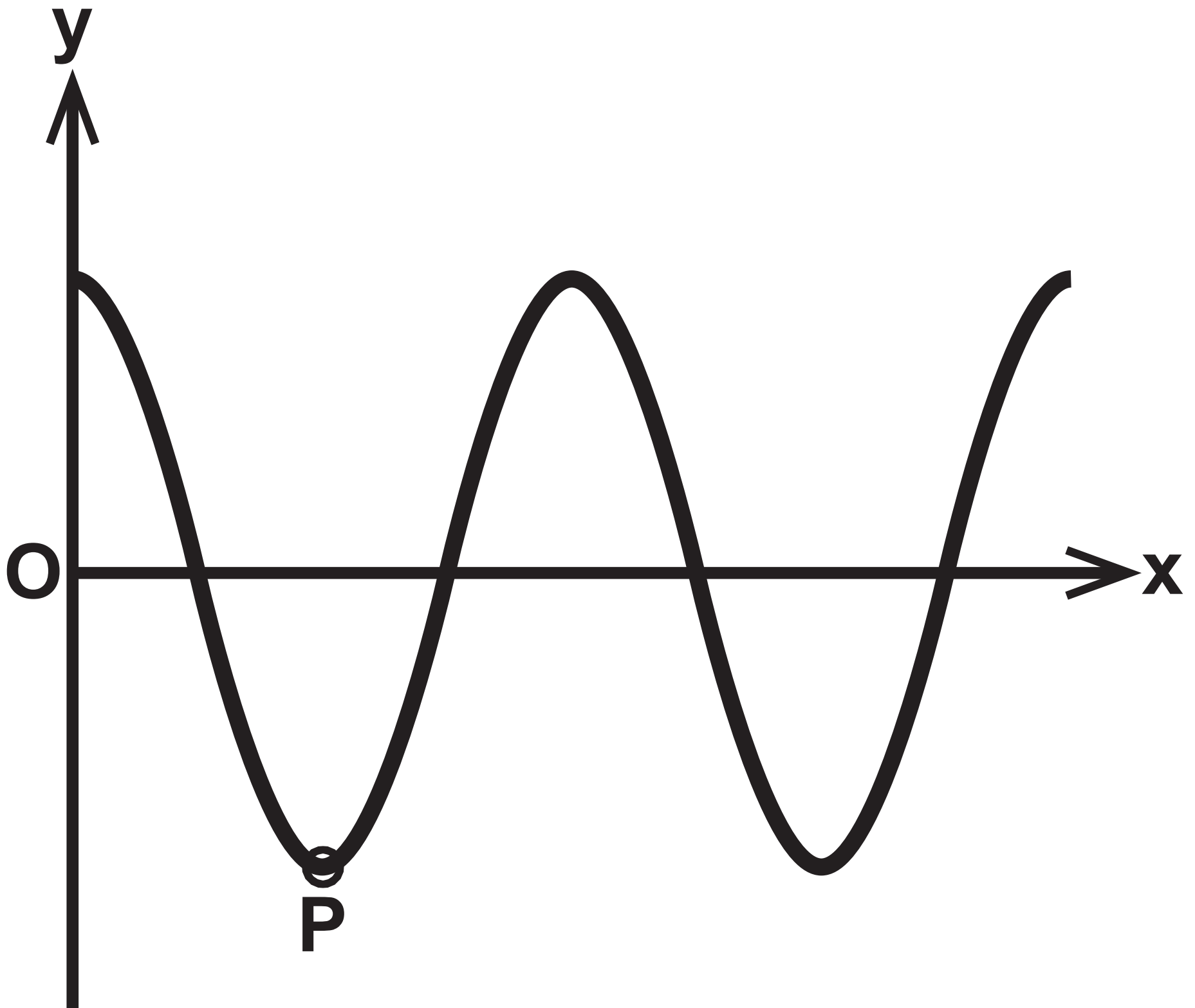
Question 15



Question 18

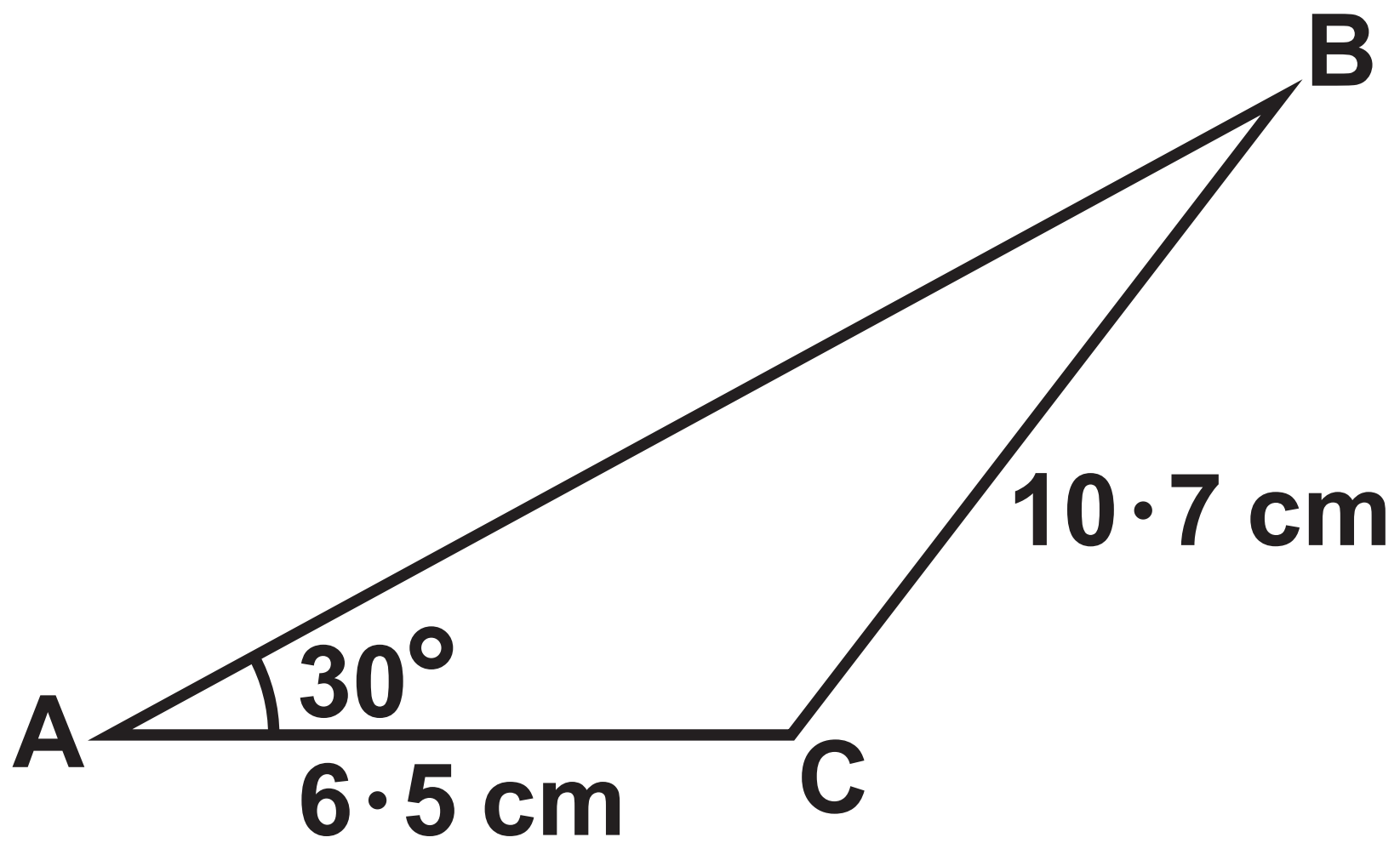


# Question 21





## Question 22



Question 24(a)

Diagram 1

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

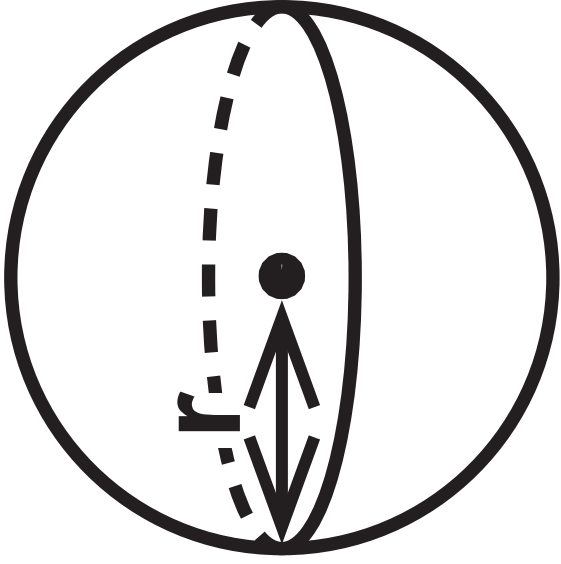


Diagram 2

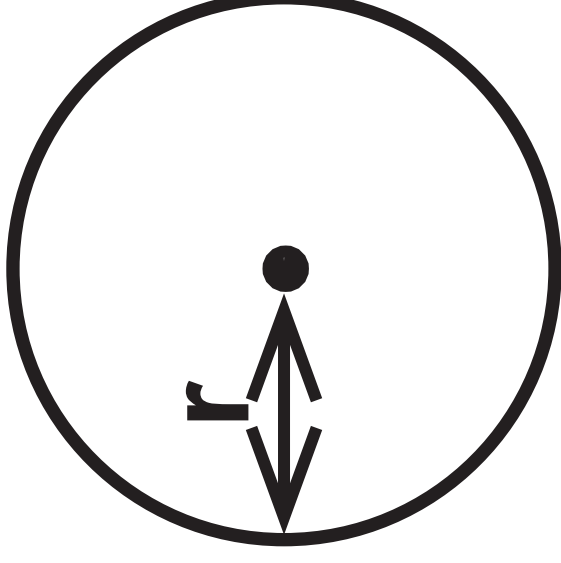


Diagram 3

Volume of cone =  $\frac{1}{3}\pi r^2 h$

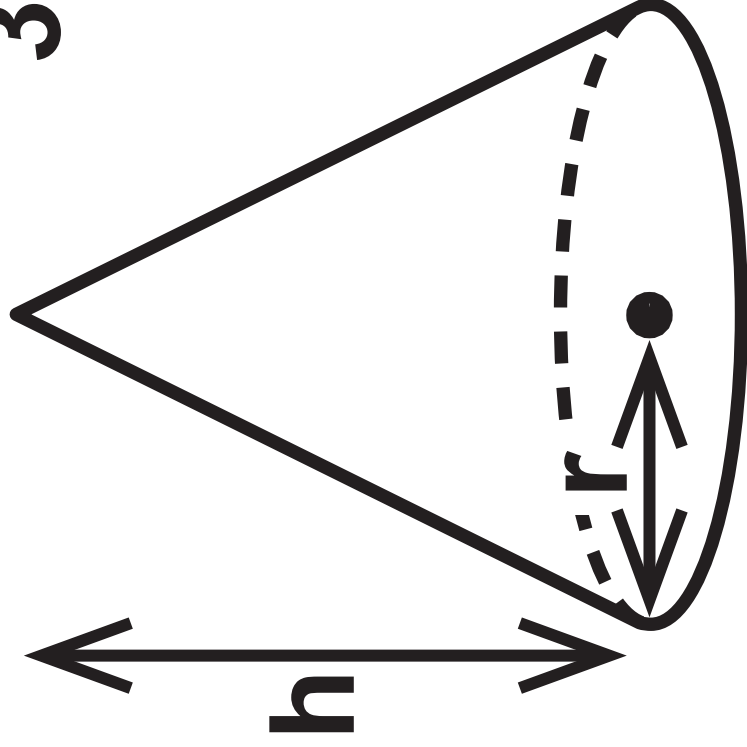


Diagram 4

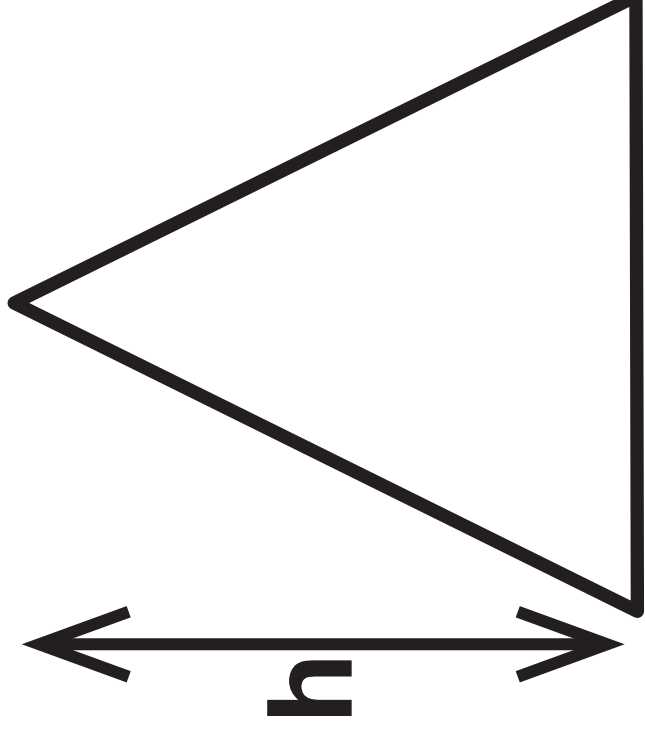


Diagram 5

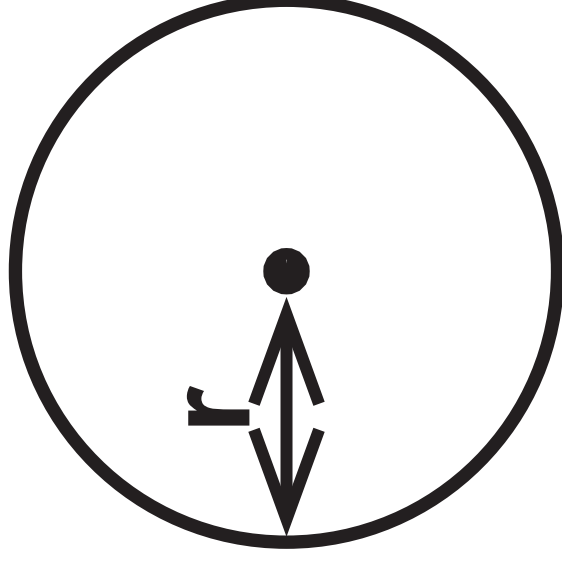


Diagram 1

Surface area of sphere =  $4\pi r^2$

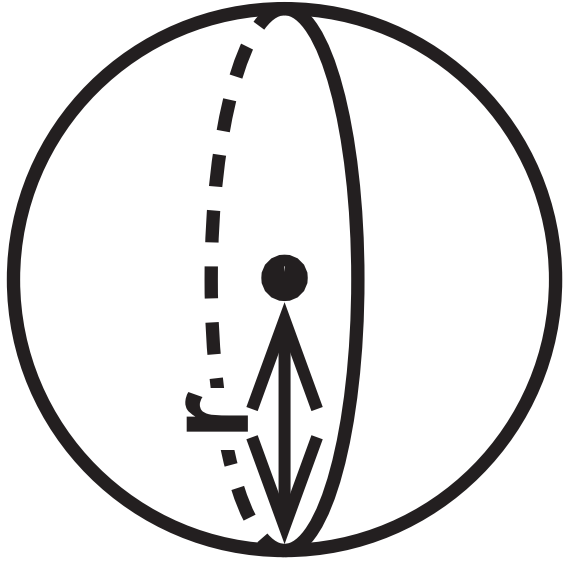


Diagram 2

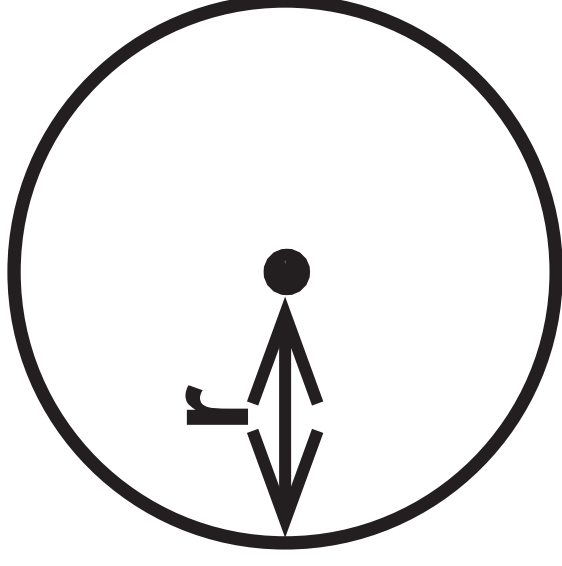


Diagram 3

Curved area of cone =  $\pi r l$

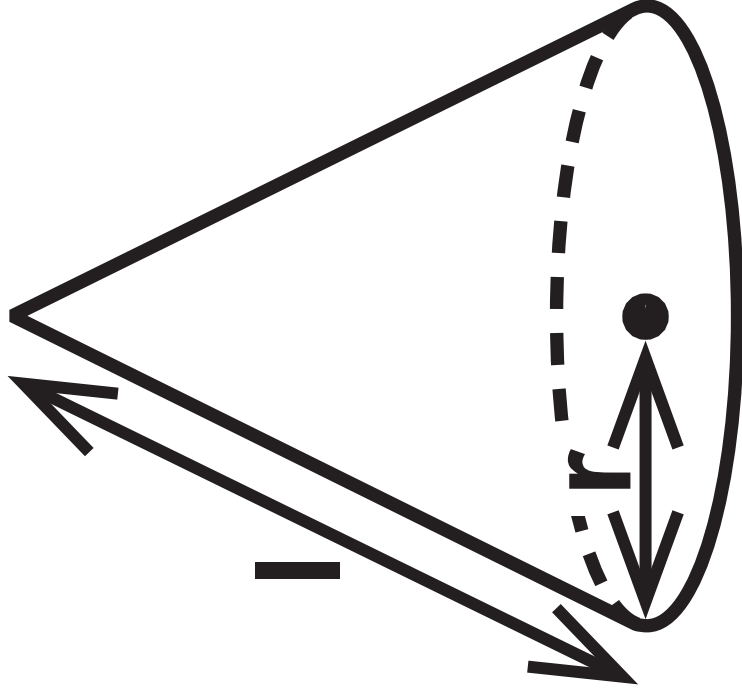


Diagram 4

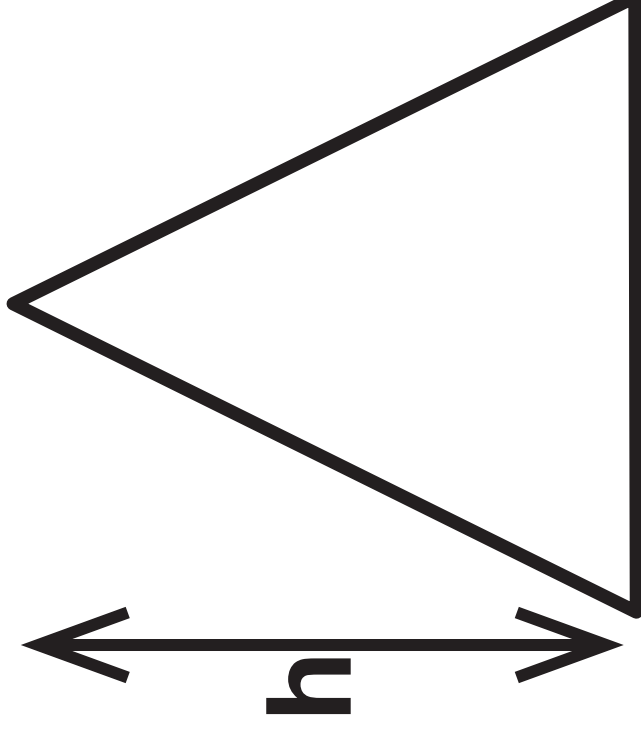


Diagram 5

