

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

**Mathematics**  
**Paper 1**  
**(Non-Calculator)**  
**Higher Tier**

**Tuesday 21 May 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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**19 Question 16**

Colour	Probability
blue	0.2
red	
yellow	

Colour	Probability
blue	0.2
red	
yellow	

**Deon needs 50 grams of sugar to make 15 biscuits.**

**She also needs  
three times as much flour as sugar  
two times as much butter as sugar**

# Question 4

Diagram 1

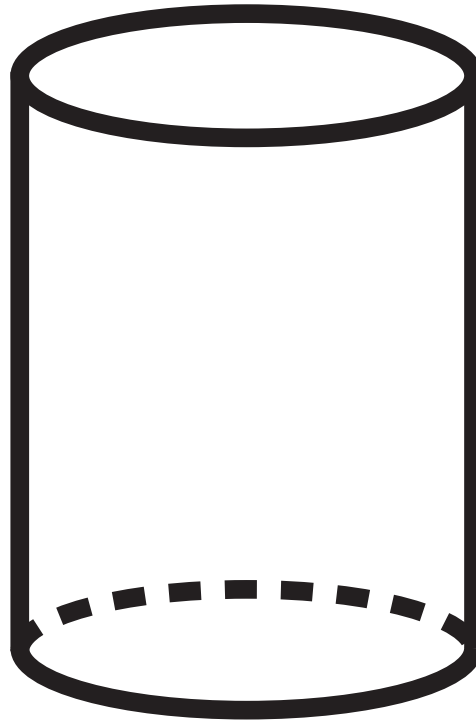
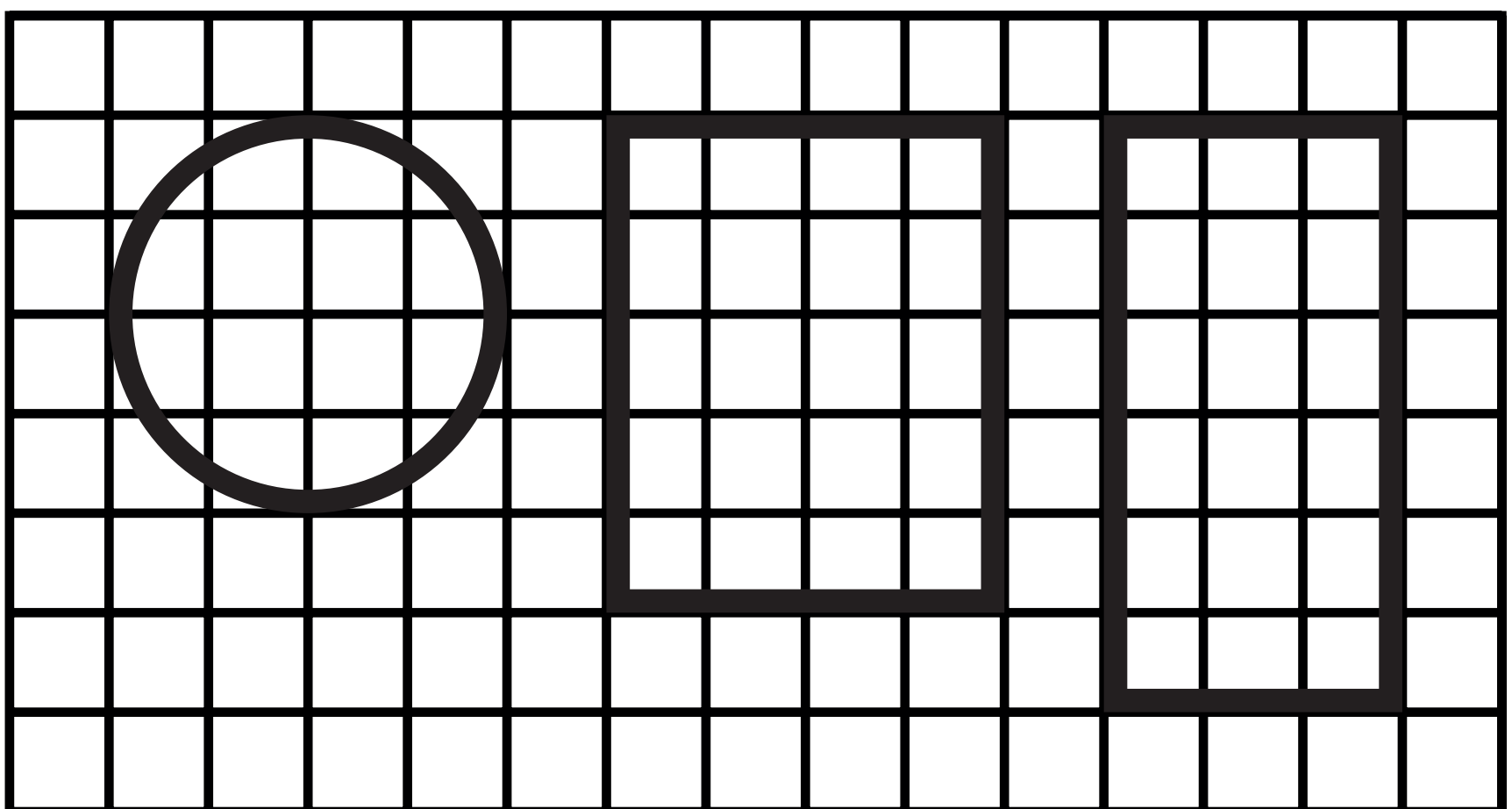


Diagram 2

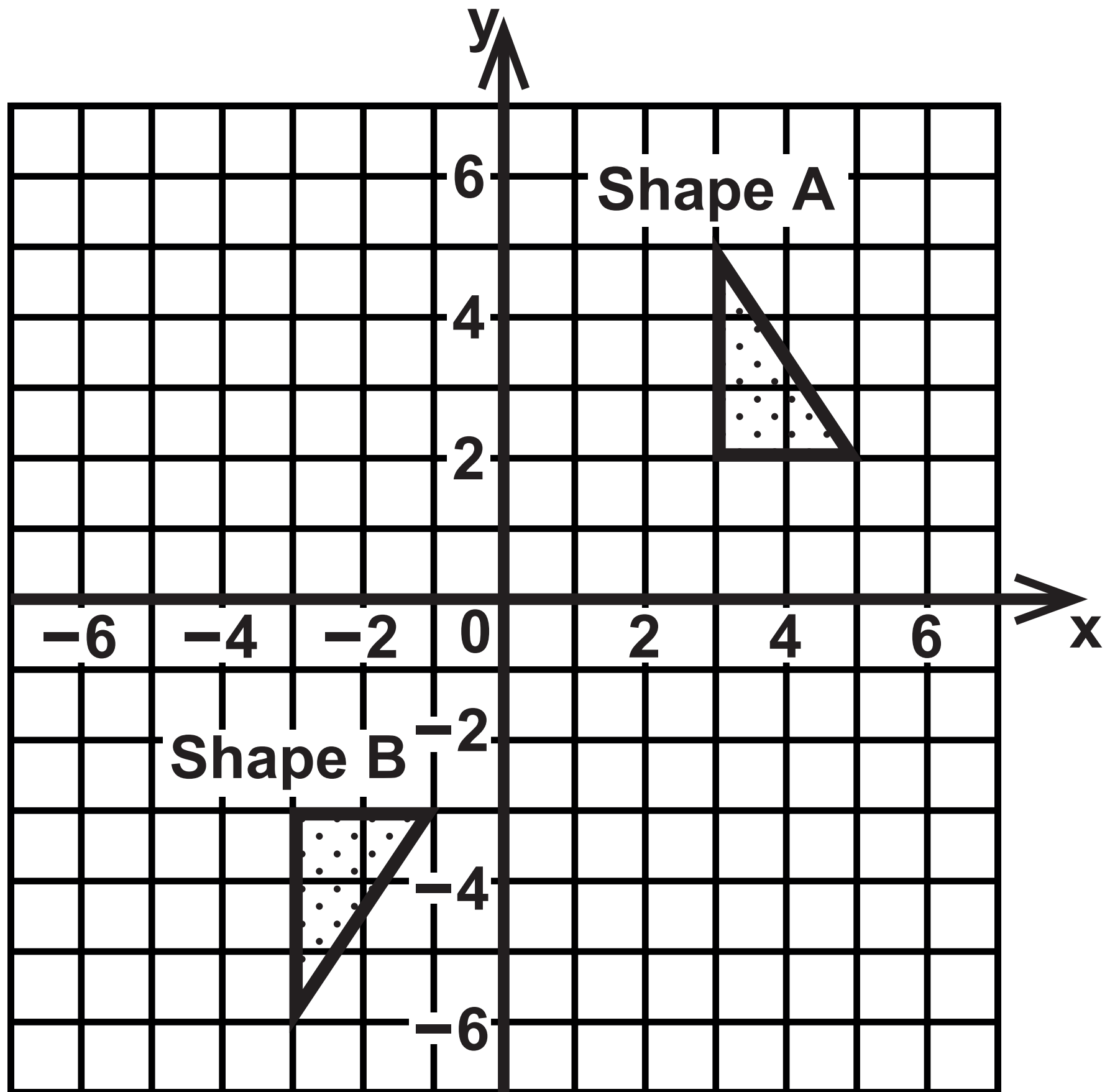
Option A

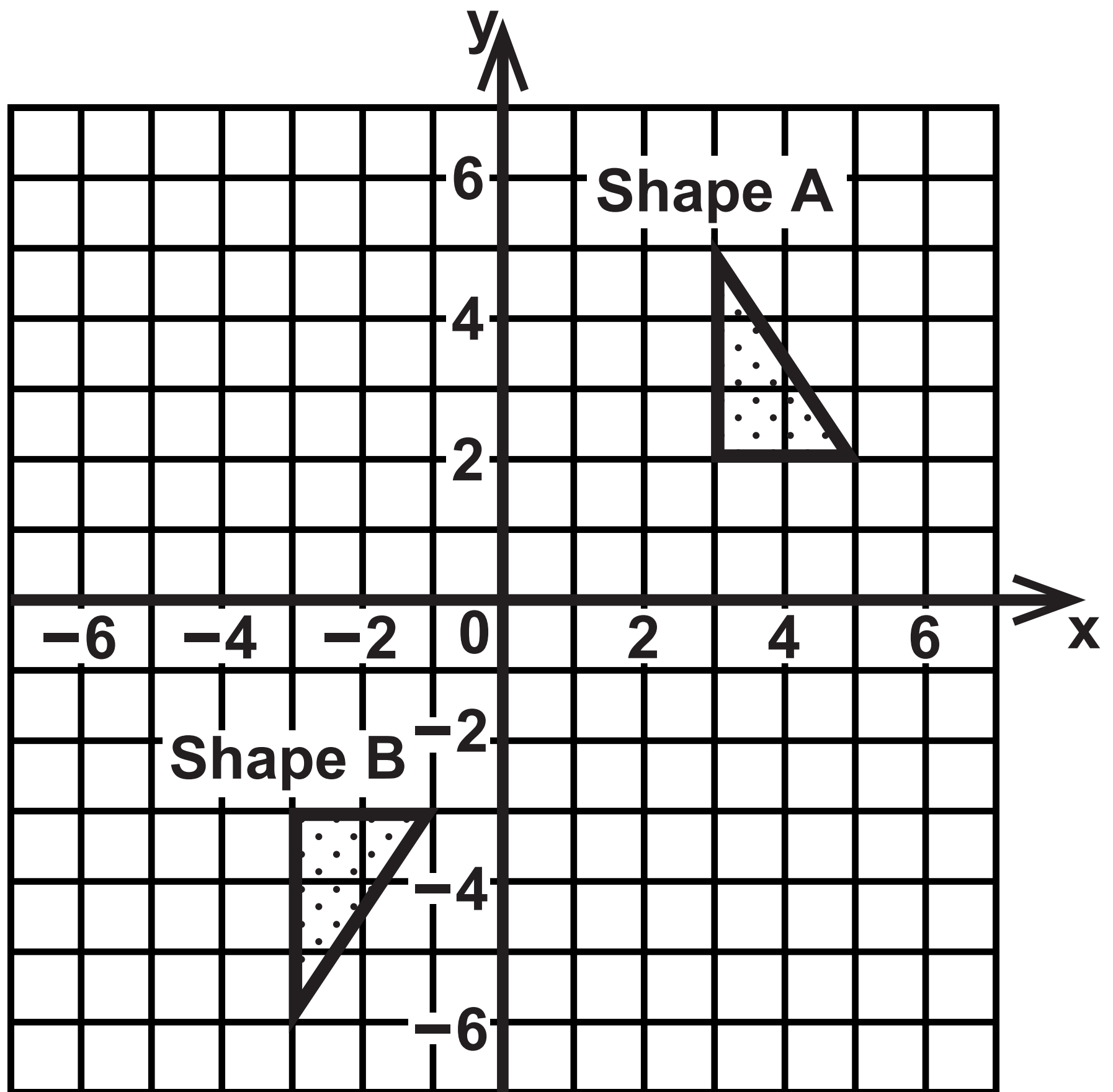
Option B

Option C









## Question 6

**There are**

**2 pens in each pack of black pens**

**5 pens in each pack of red pens**

**6 pens in each pack of green pens**

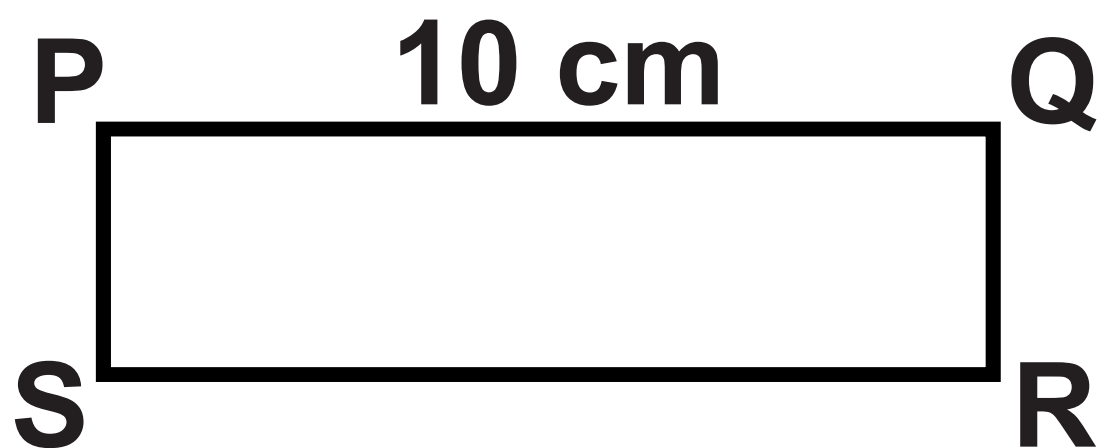
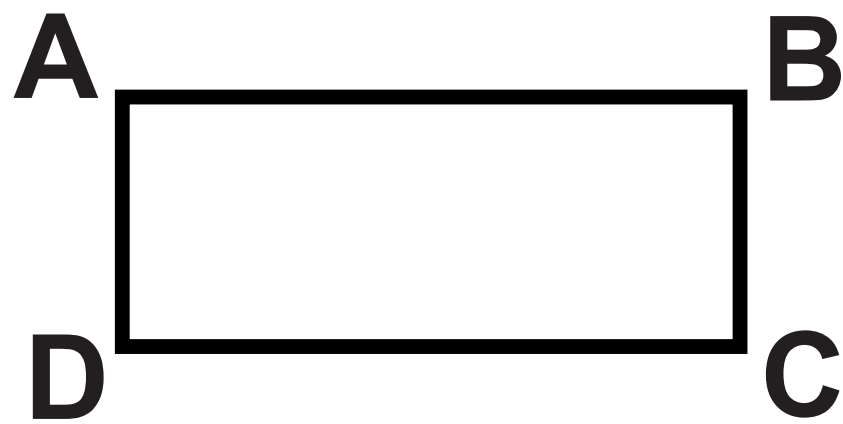
**On Monday,**

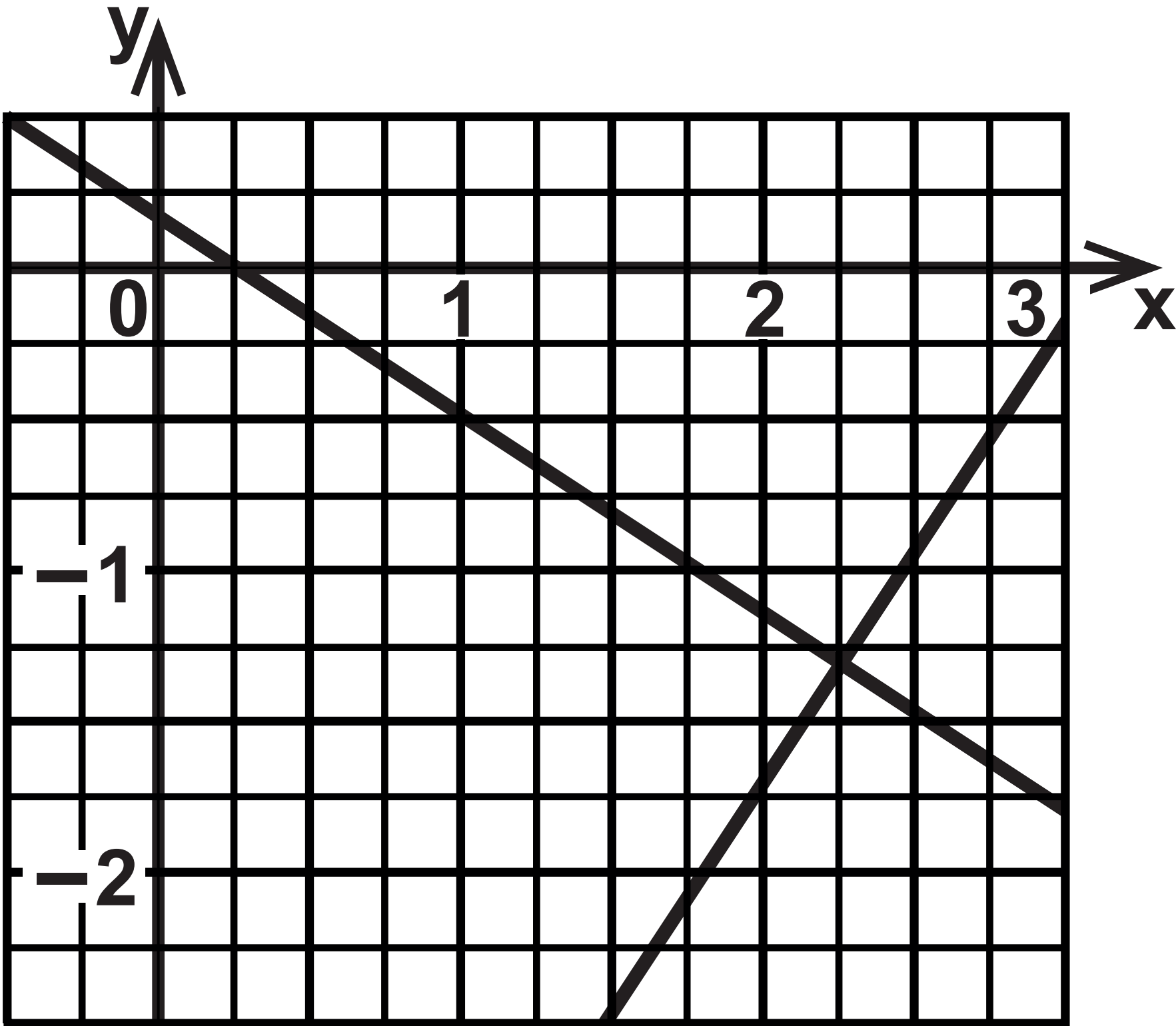
**number of packs of black pens sold : number of packs of**

**red pens sold : number of packs of green pens sold =**

**7 : 3 : 4**

**A total of 212 pens were sold.**





Question 11

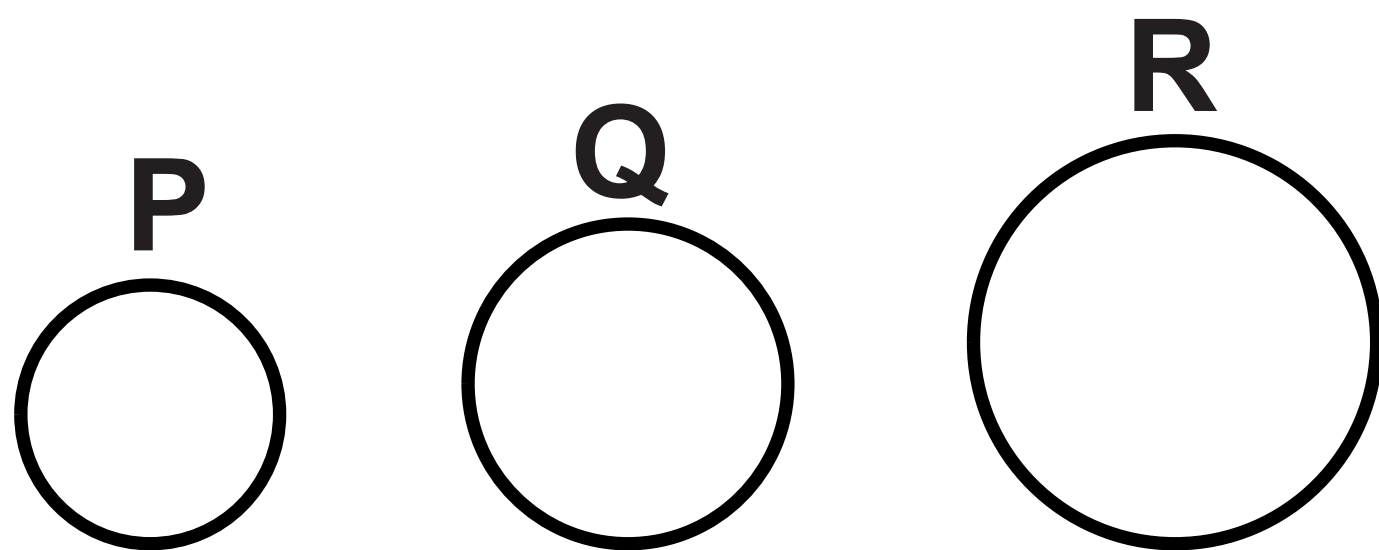
41	42	44	48	52	53	53	53	53	56	57	57	59
60	61	63	64	64	66	66	67	69	74	77	79	

	Coach A	Coach B
Median		70
Lower quartile		54
Upper quartile		73
Least age	41	42
Greatest age	79	85

Question 11

41	42	44	48	52	53	53	53	53	56	57	57	59
60	61	63	64	64	66	66	67	69	74	77	79	

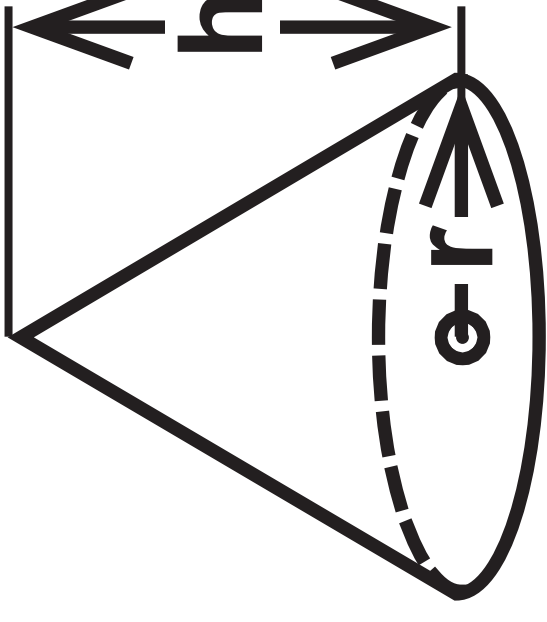
	Coach A	Coach B
Median		70
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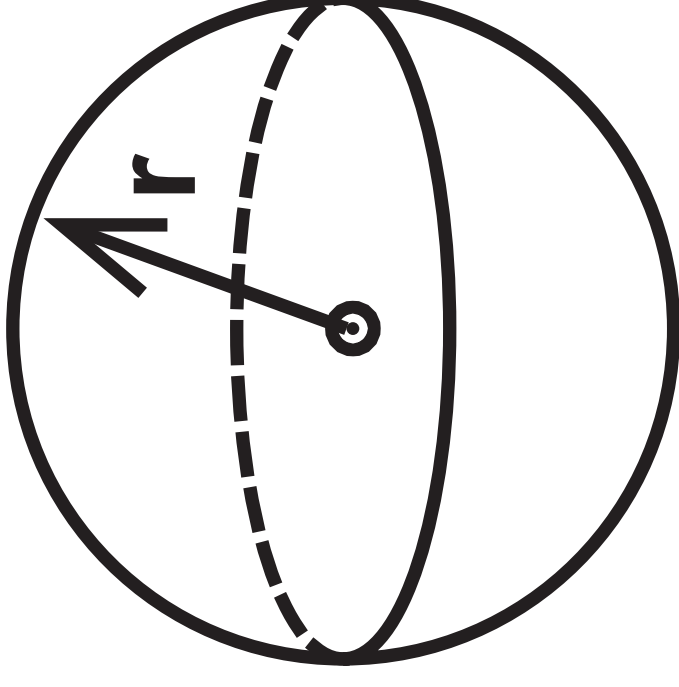


## Question 15 – Formulae

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



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



Question 15 – Diagrams

Diagram 1

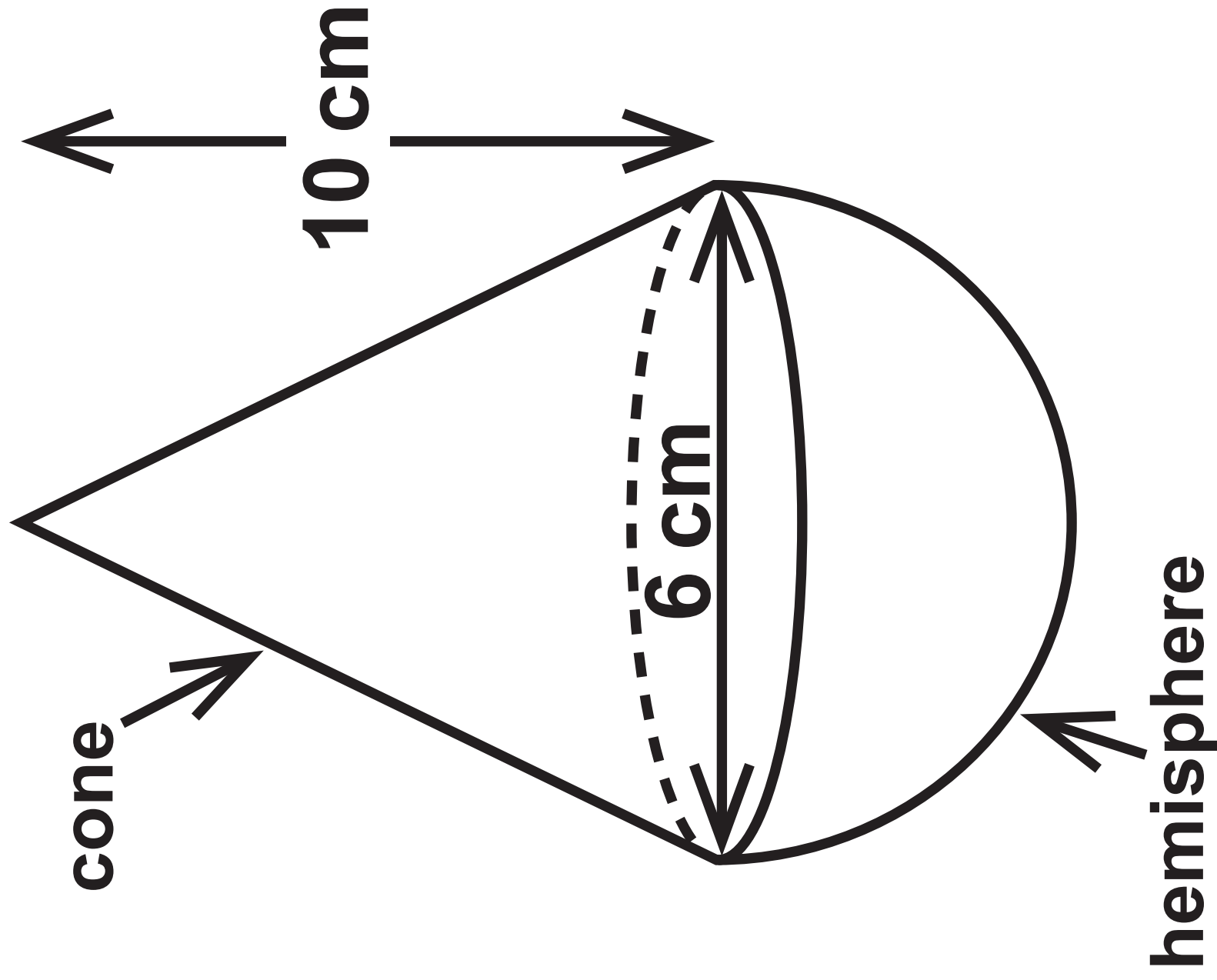


Diagram 2  
Simplified 2D diagram

