

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.

| | | | | | |
|------------------|--|--|--|--|--|
| 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

| Colour | Probability |
|--------|-------------|
| blue | 0.2 |
| red | |
| yellow | |

Question 1

| Colour | Probability |
|--------|-------------|
| blue | 0.2 |
| red | |
| yellow | |

Question 2

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

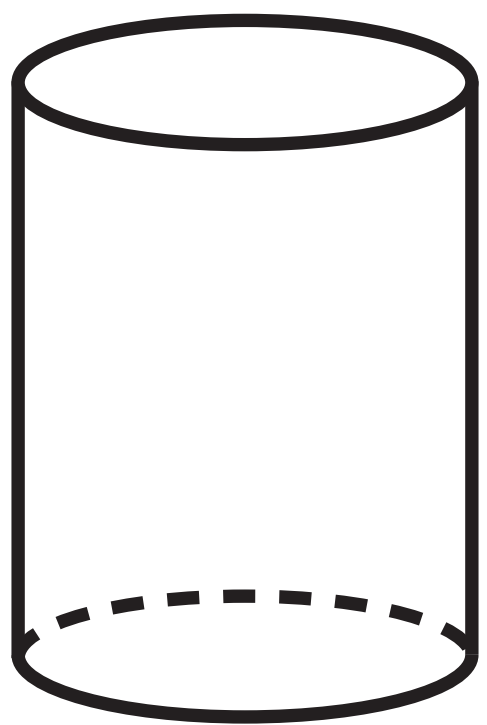
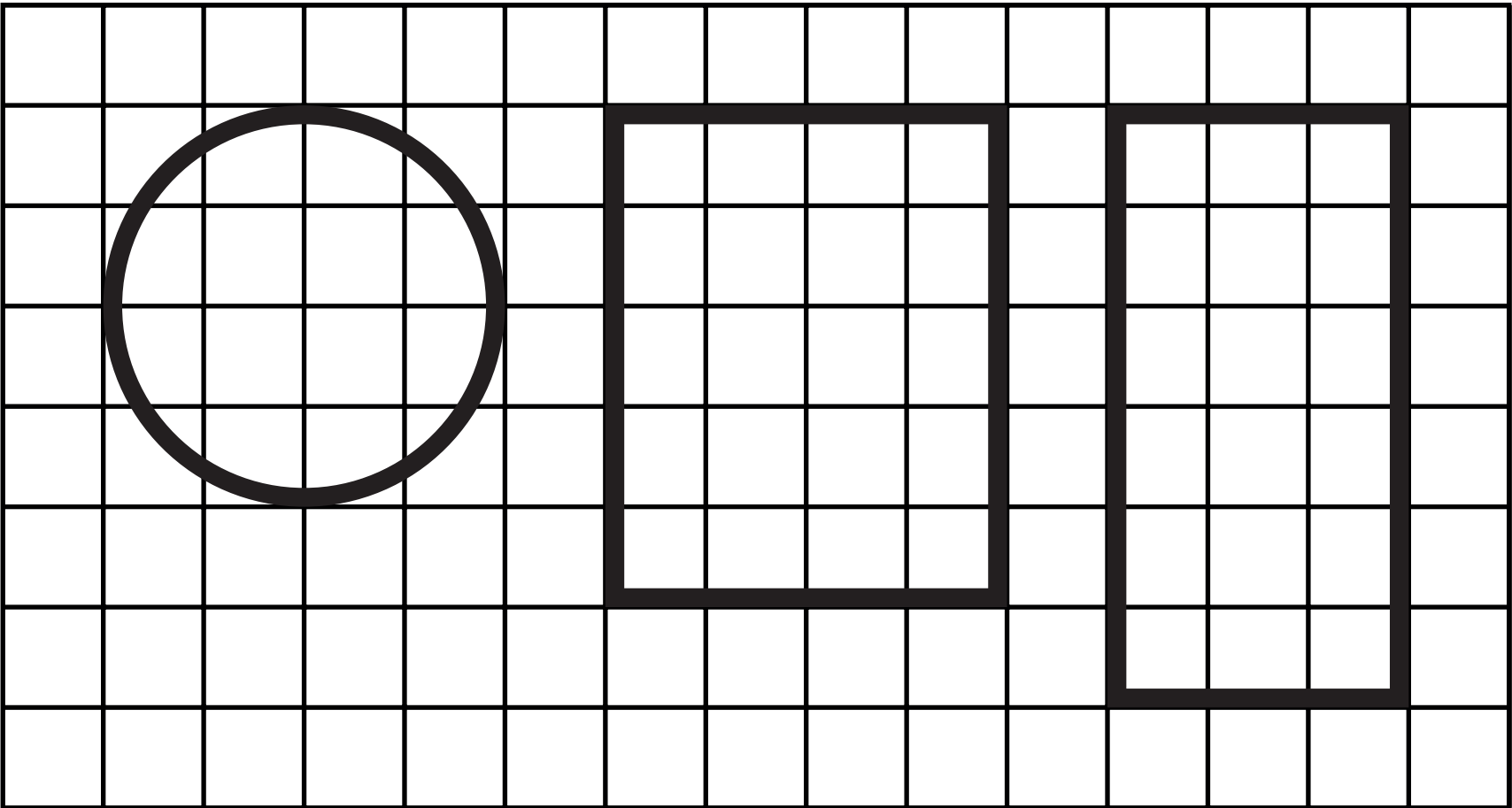


Diagram 2

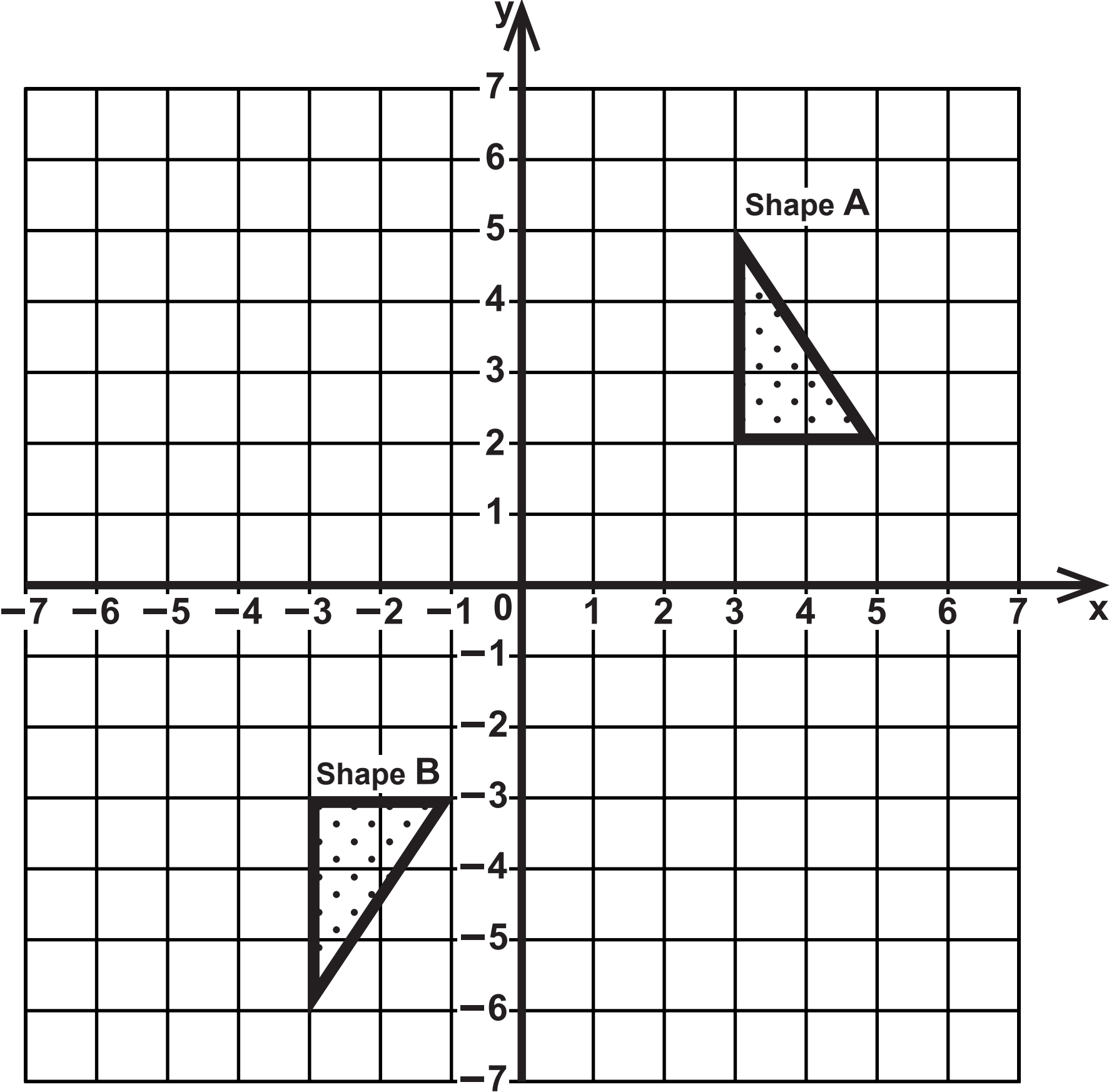
Option A



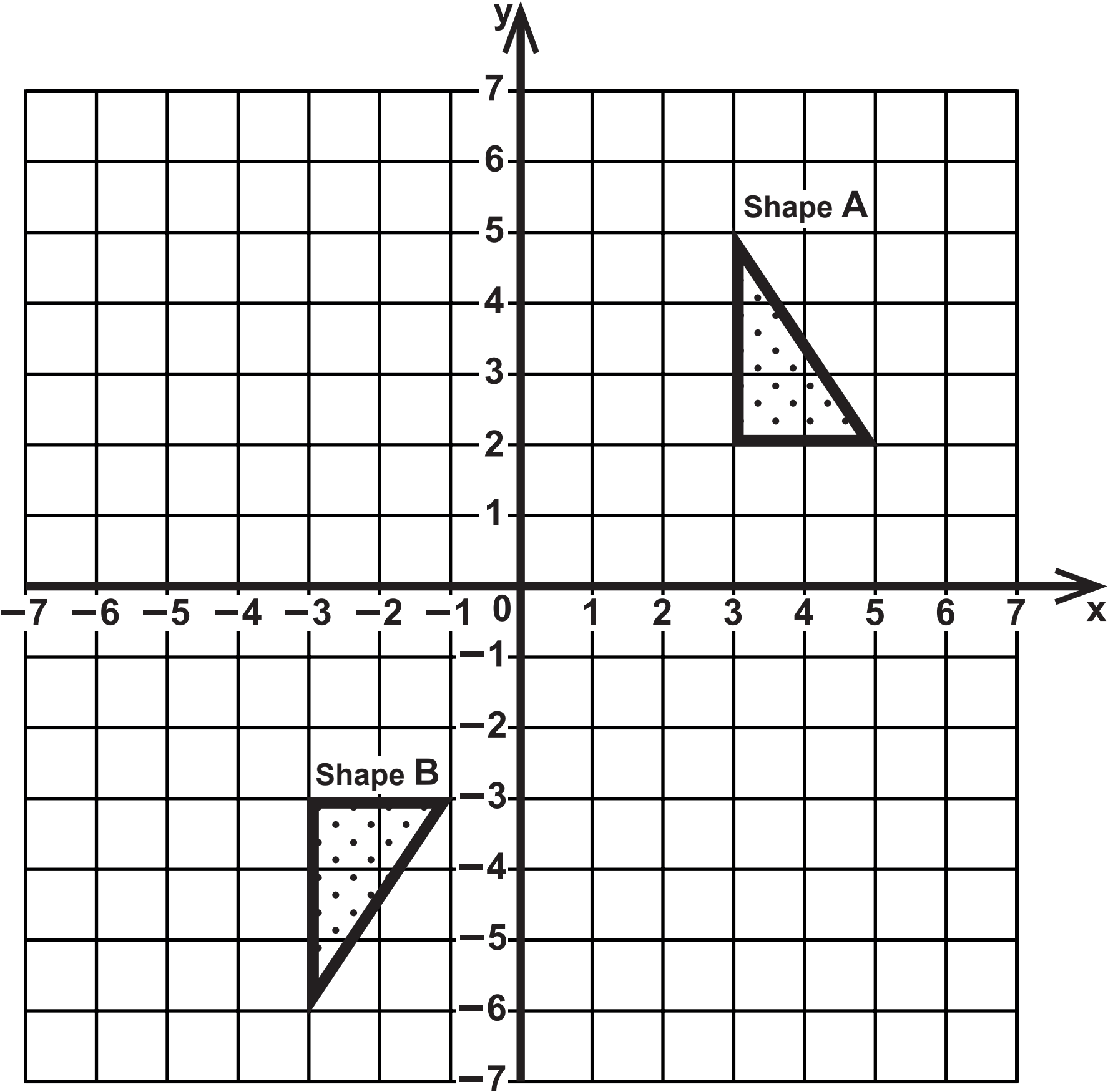
Option B

Option C

Question 5



Question 5



Question 6

There are

2 pens in each pack of black pens

5 pens in each pack of red pens

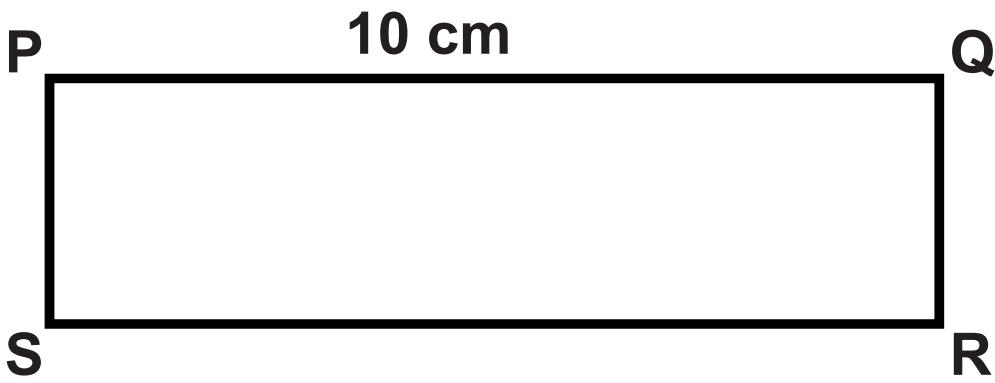
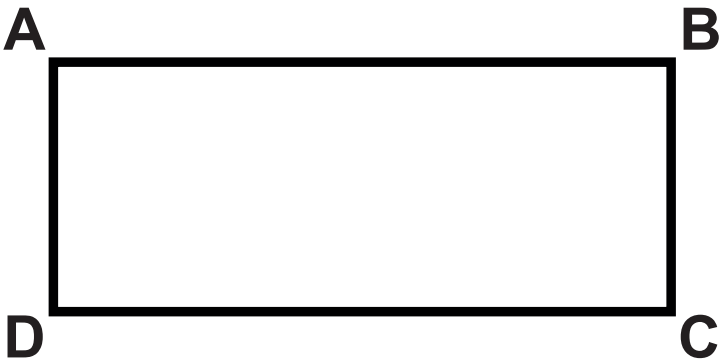
6 pens in each pack of green pens

On Monday,

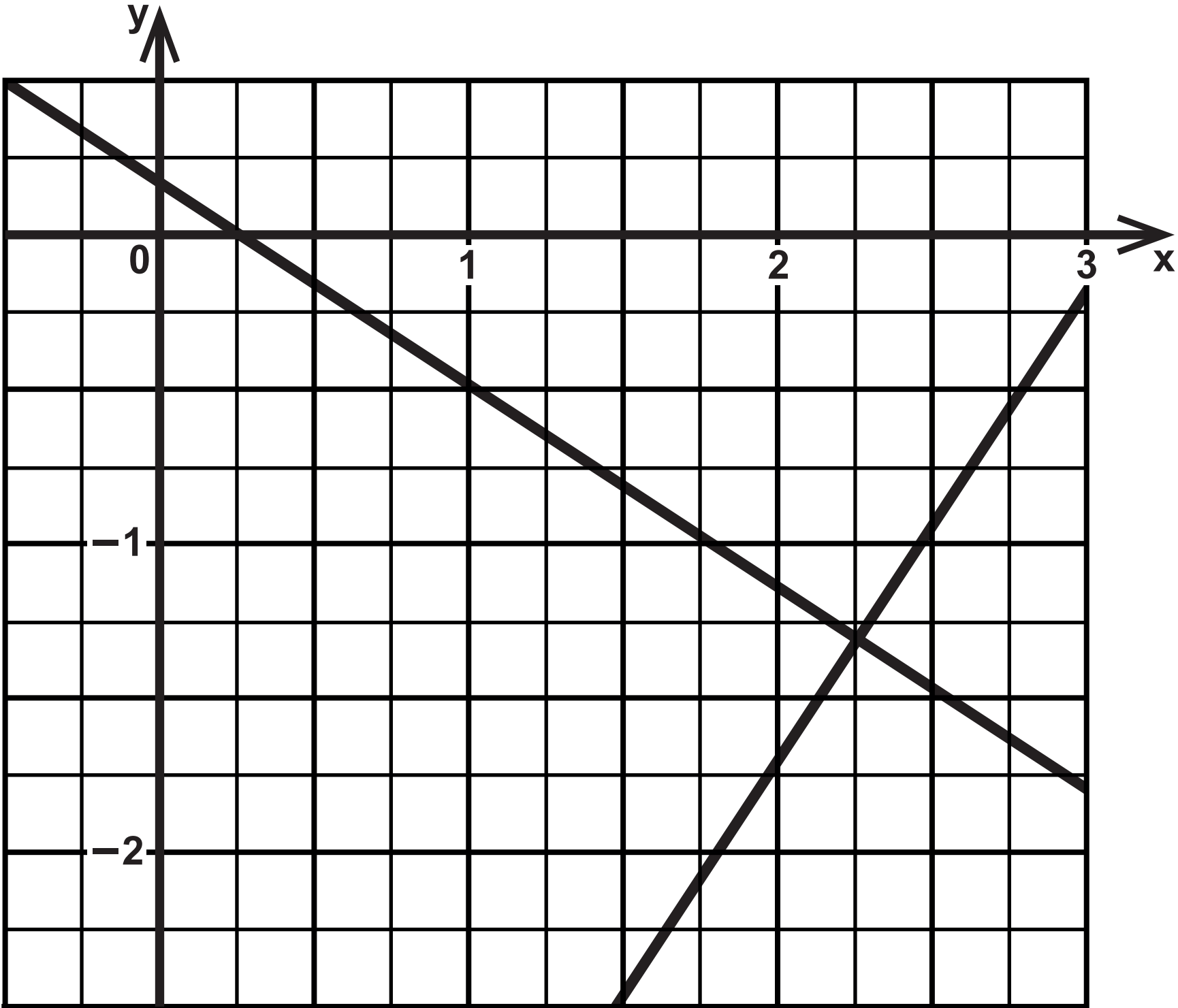
number of packs of black pens sold : number of packs of red pens sold : number of packs of green pens sold = 7 : 3 : 4

A total of 212 pens were sold.

Question 7



Question 10



Question 11

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

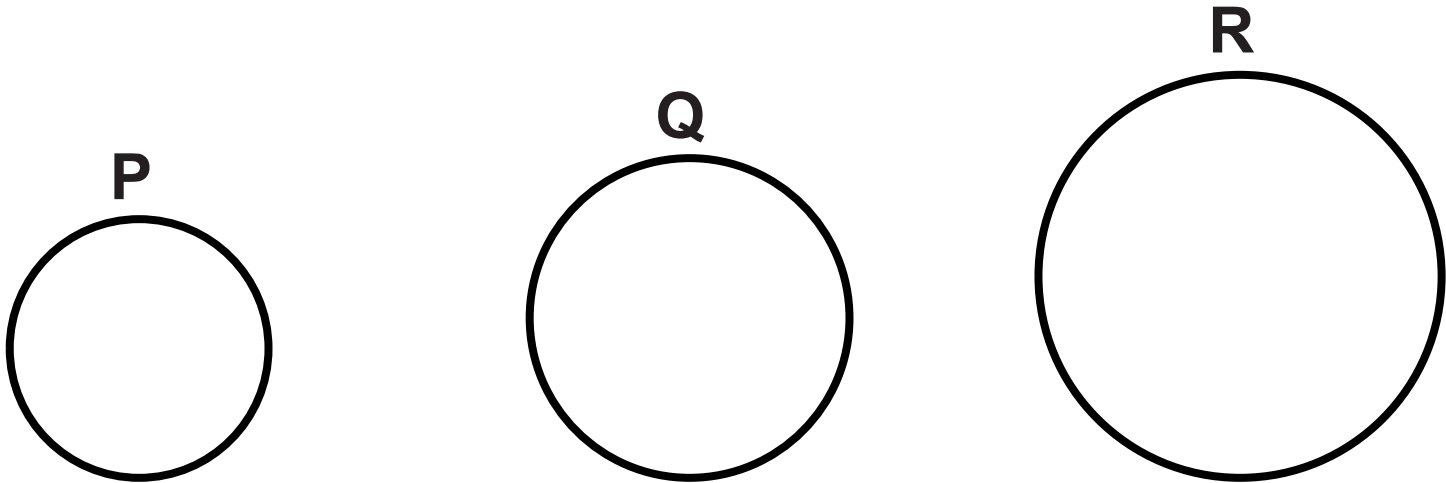
| | | |
|----------------|---------|---------|
| | Coach A | Coach B |
| Median | | 70 |
| Lower quartile | | 54 |
| Upper quartile | | 73 |
| Least age | 41 | 42 |
| Greatest age | 79 | 85 |

Question 11

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

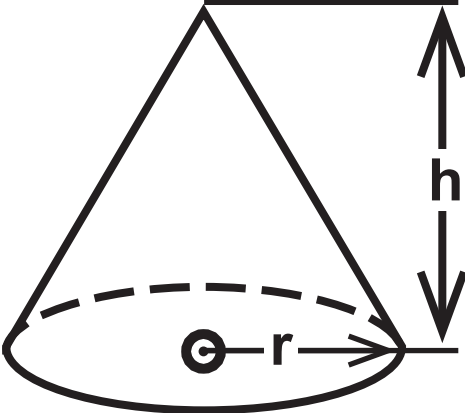
| | | |
|----------------|---------|---------|
| | Coach A | Coach B |
| Median | | 70 |
| Lower quartile | | 54 |
| Upper quartile | | 73 |
| Least age | 41 | 42 |
| Greatest age | 79 | 85 |

Question 12



Question 15

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



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

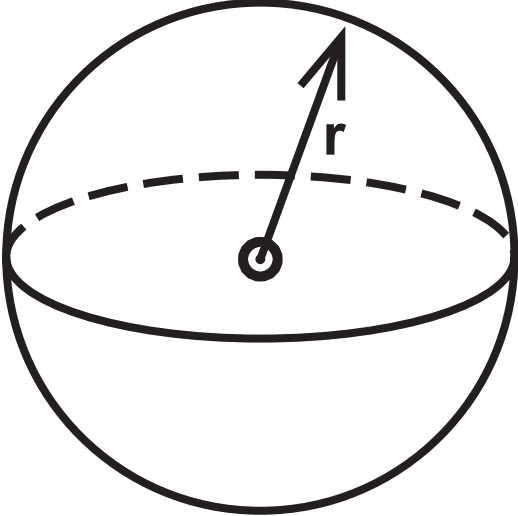


Diagram 1

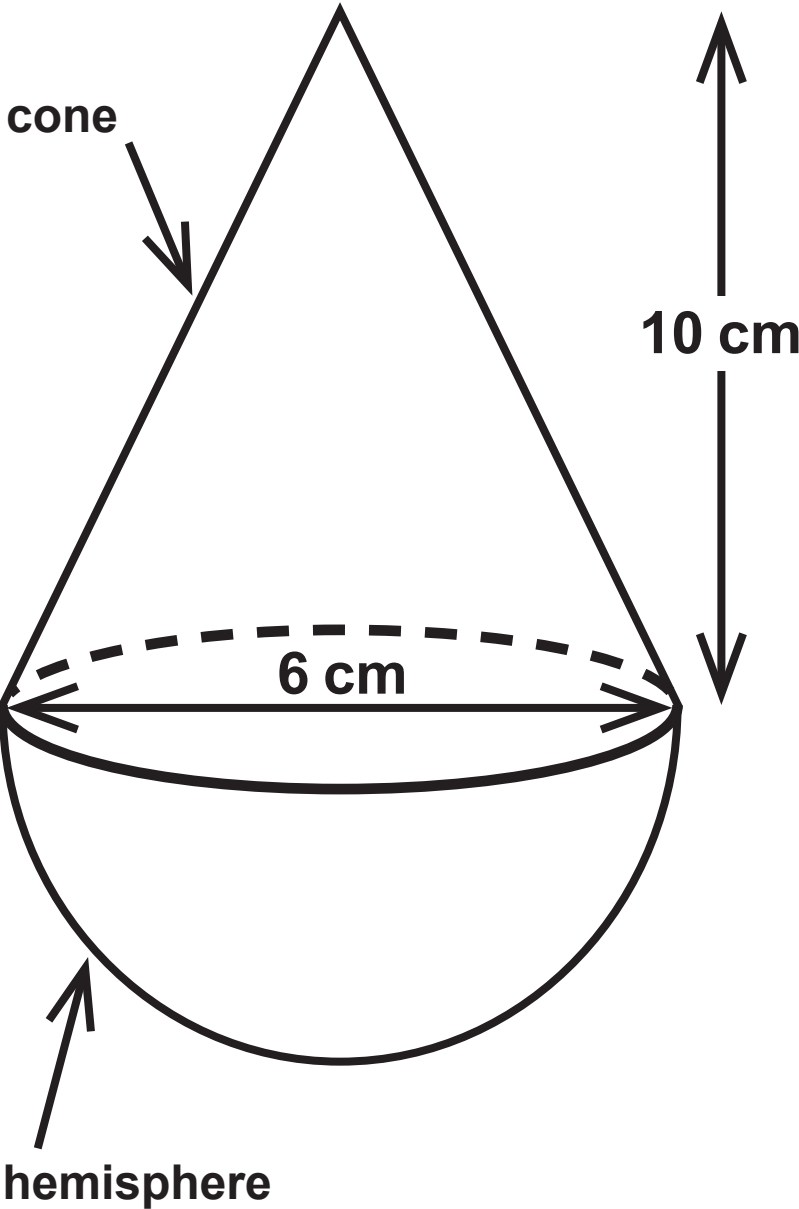
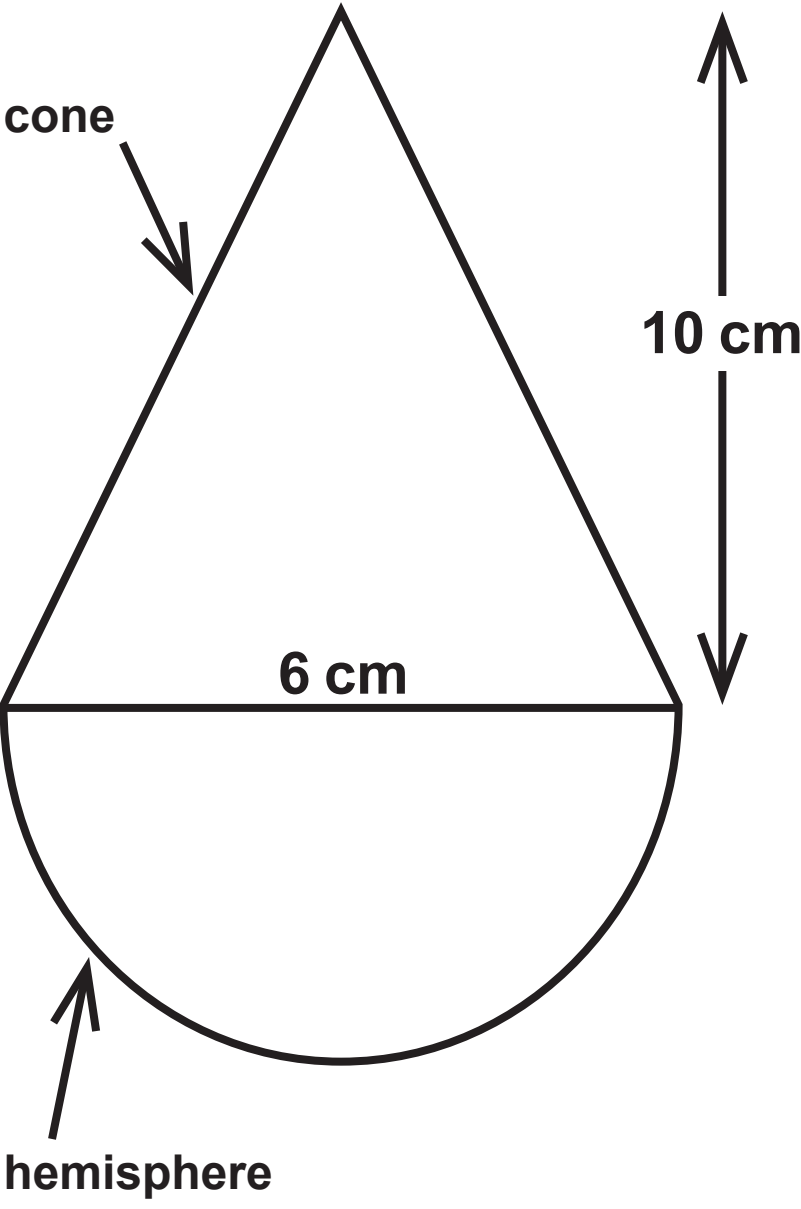


Diagram 2
Simplified 2D diagram



Question 16

