

Probability – 2022 IGCSE 0580

1. June/2022/Paper_11/No.13

A 4-sided spinner is numbered 1, 2, 3 and 4.

The table shows the probability of the spinner landing on 1, 2 and 4.

Number	1	2	3	4
Probability	0.27	0.18		0.32

Complete the table.

[2]

2. June/2022/Paper_11/No.17

Kim has a 6-sided spinner numbered 1 to 6.

She spins it 63 times and her scores are shown in the table.

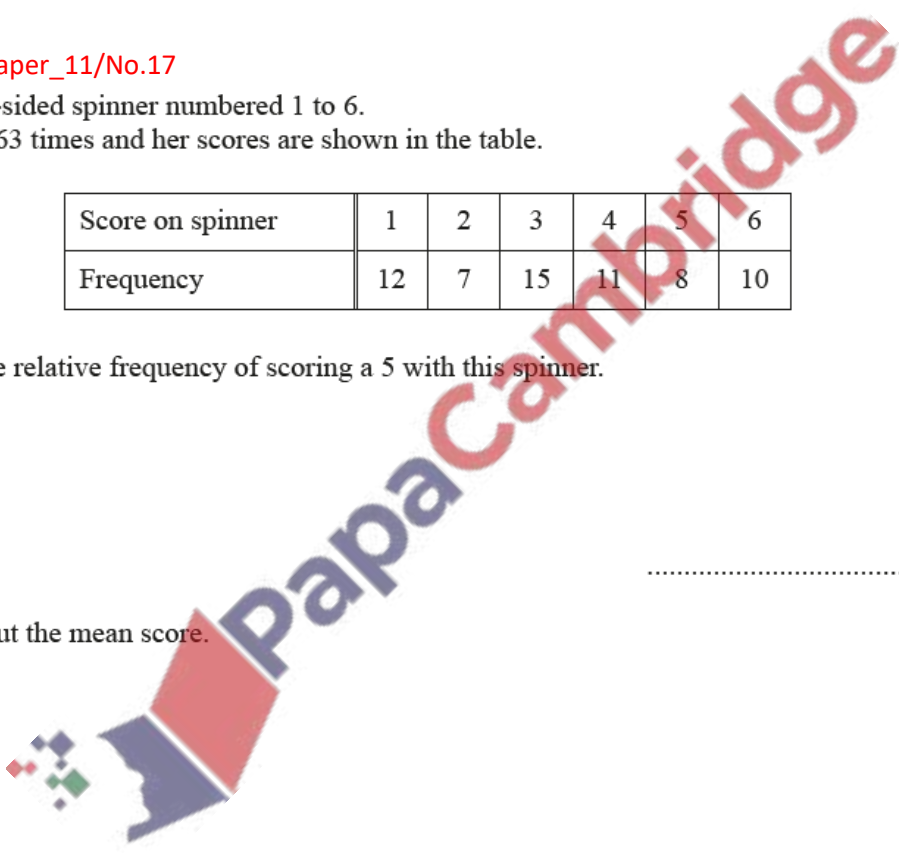
Score on spinner	1	2	3	4	5	6
Frequency	12	7	15	11	8	10

(a) Find the relative frequency of scoring a 5 with this spinner.

..... [1]

(b) Work out the mean score.

..... [3]



3. June/2022/Paper_12/No.5
The probability of picking a red sweet from a bag is 0.05 .

Find the probability of not picking a red sweet.

..... [1]

4. June/2022/Paper_22/No.6

Some cards have either a square, a circle or a triangle drawn on them.
Piet chooses one of the cards at random.

Complete the table to show the probability of choosing a card with each shape.

Shape	Square	Circle	Triangle
Probability	0.2	0.32	

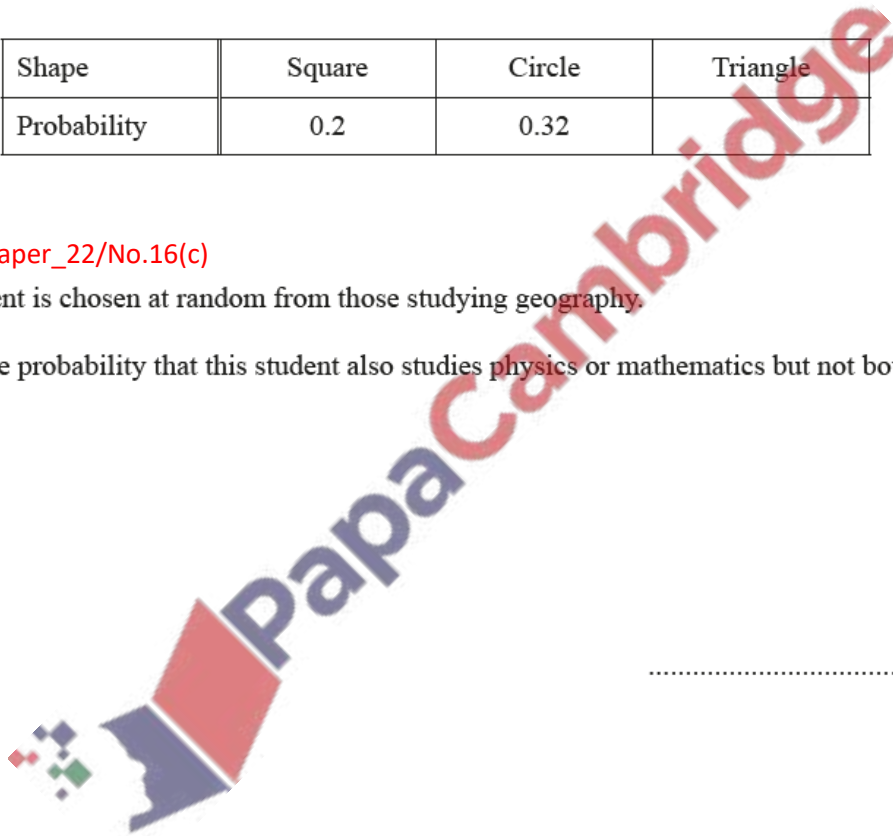
[2]

5. June/2022/Paper_22/No.16(c)

(c) A student is chosen at random from those studying geography.

Find the probability that this student also studies physics or mathematics but not both.

..... [2]



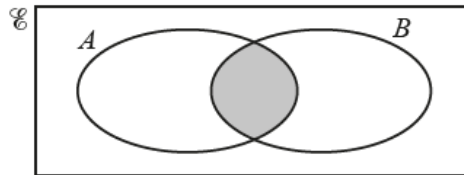
6. **June/2022/Paper_23/No.1**
 The probability of picking a red sweet from a bag is 0.05 .

Find the probability of not picking a red sweet.

..... [1]

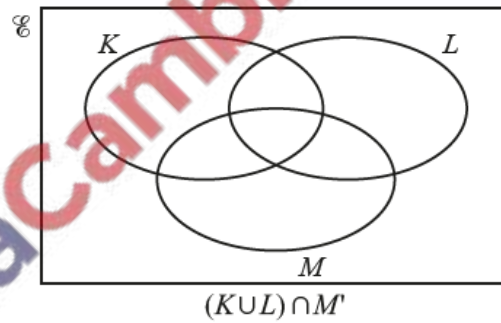
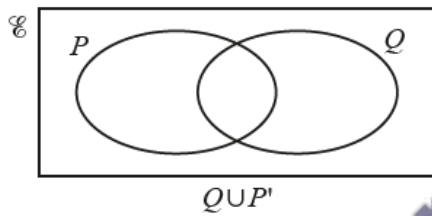
7. **June/2022/Paper_41/No.8**

(a) (i) Use set notation to describe the shaded region in the Venn diagram.

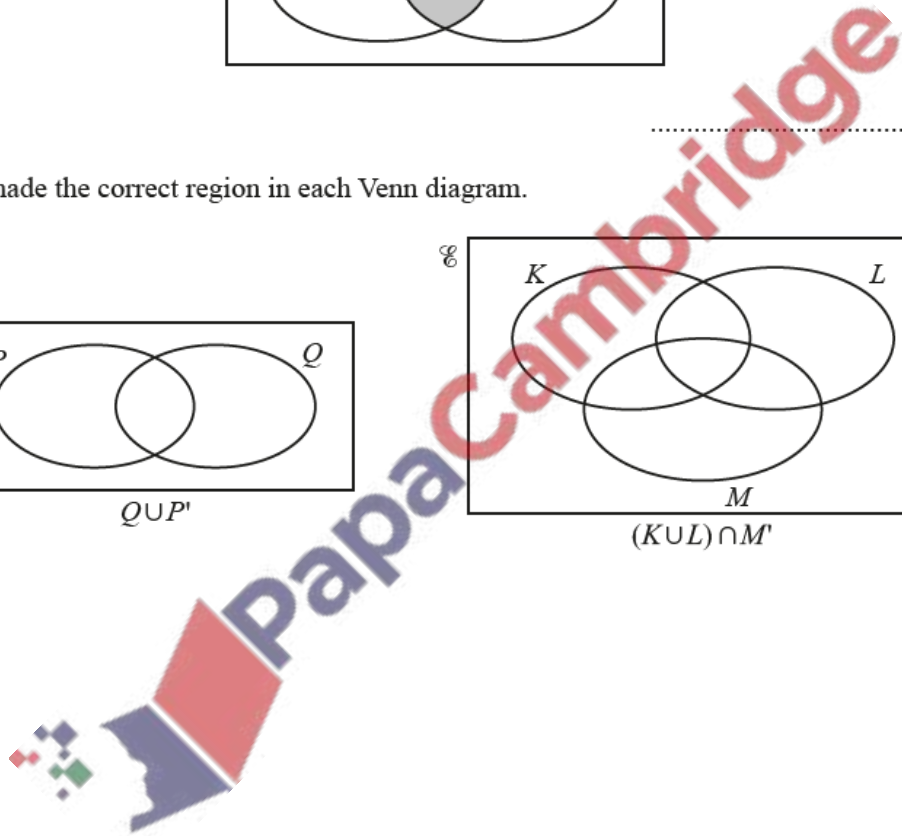


..... [1]

(ii) Shade the correct region in each Venn diagram.



[2]



(b)



The diagram shows 11 cards.

- (i) One of these cards is chosen at random.

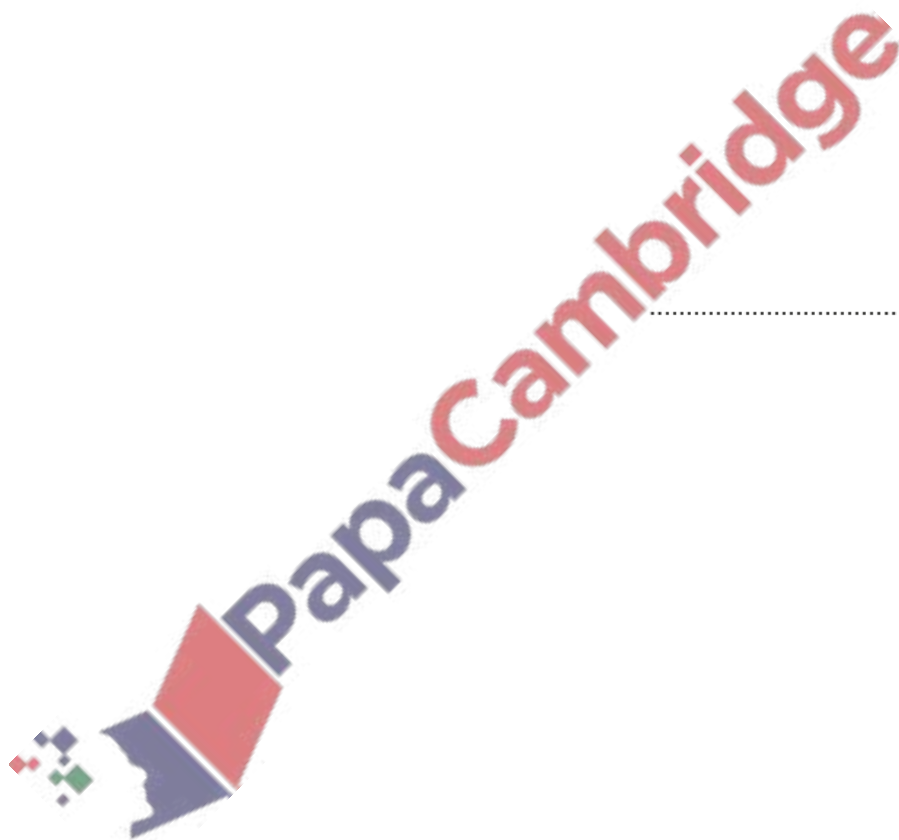
Write down the probability that the letter on the card is **not** A.

..... [1]

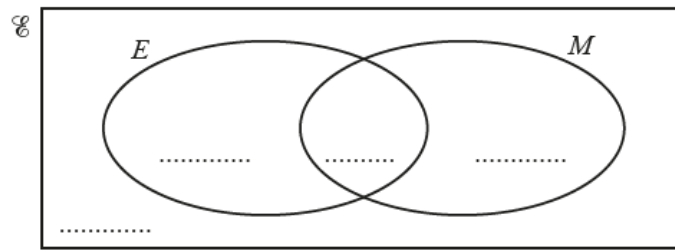
- (ii) A card is chosen at random from these 11 cards and then replaced.
A second card is then chosen at random.

Find the probability that exactly one card has the letter N.

..... [3]



(c)



50 students are asked if they like English (E) and if they like mathematics (M).
3 say they do not like English and do not like mathematics.
33 say they like English.
42 say they like mathematics.

(i) Complete the Venn diagram. [2]

(ii) A student is chosen at random.

Find the probability that this student likes English and likes mathematics.

..... [1]

(iii) Two students are chosen at random.

Find the probability that they both like mathematics.

..... [2]

(iv) Two students who like English are chosen at random.

Find the probability that they both also like mathematics.

..... [2]

