

Probability – 2024 O Level Math D 4024**1. June/2024/Paper_4024/11/No.5**

The table shows information about a class of 28 students and the distances they live from their school.

	Boys	Girls
Distance of 1 km or less	11	
Distance of more than 1 km	3	6

(a) Complete the table. [1]

(b) A student is chosen at random from the class.

Write down the probability that the student lives more than 1 km from the school.

..... [1]

2. June/2024/Paper_4024/12/No.13

Kamal records the number of phone calls he receives at work each day for 20 days.

The results are shown in the table.

Number of phone calls	0 to 5	6 to 10	11 to 15	16 or more
Frequency	9	5	4	2

(a) Find the relative frequency of Kamal receiving 0 to 5 phone calls at work in one day.

..... [1]

(b) Kamal works for 160 days.

Find the number of these days Kamal would expect to receive 11 or more phone calls at work.

..... [2]

3. June/2024/Paper_4024/21/No.11

(a) On any day in January, the probability the temperature at a weather station is above 14°C is 0.35 .

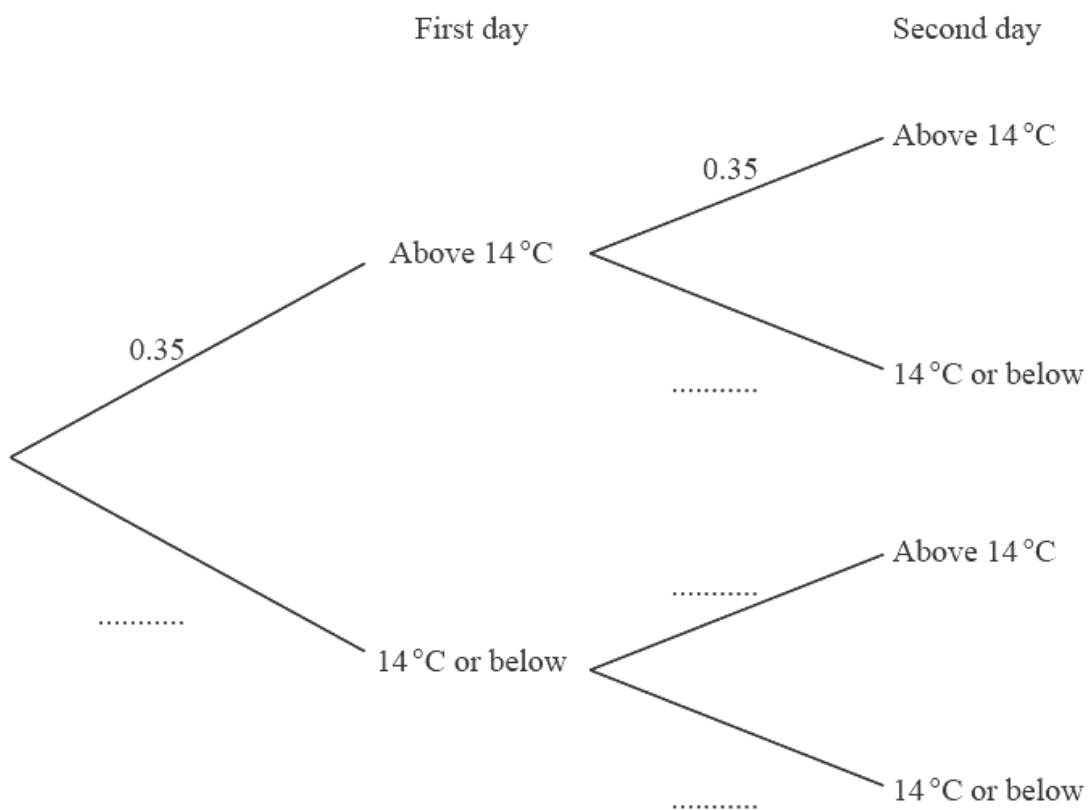
(i) There are 31 days in January.

Find the number of days in January when you would expect the temperature to be above 14°C .

..... [1]

(ii) The temperature on two consecutive days in January is recorded.

(a) Complete the tree diagram.



[2]

(b) Find the probability that the temperature is above 14°C on both days.

..... [1]

(c) Find the probability that the temperature is above 14°C on only one of the two days.

..... [2]

(b) In a group of 14 children:

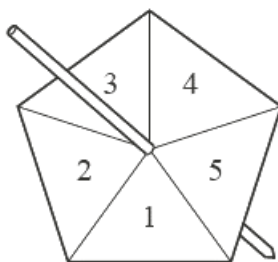
- 8 wear red T-shirts
- 1 wears a green T-shirt
- 5 wear blue T-shirts.

Two children are chosen from the group at random.

Find the probability that they wear different coloured T-shirts.

..... [3]

4. June/2024/Paper_4024/22/No.2



The diagram shows a fair spinner numbered from 1 to 5.
The score is the number the spinner lands on.

(a) The spinner is spun once.

Find the probability that the score is

(i) 3

..... [1]

(ii) even.

..... [1]

(b) The spinner is spun twice.

The two scores are added together.

(i) Complete the possibility diagram to show all the outcomes.

		First spin				
		1	2	3	4	5
Second spin	1	2	3	4	5	6
	2	3	4	5	6	7
	3	4	5	6		
	4					
	5					

[2]

(ii) Find the probability that the outcome is 4.

..... [1]

(iii) Find the probability that the outcome is greater than 6.

..... [2]