

Cambridge O Level MATHEMATICS (SYLLABUS D) 4024

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Paper 2 Calculator

May/June 2024

Questions (2)

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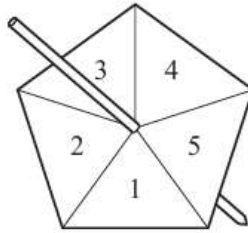
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The diagram shows a fair spinner numbered from 1 to 5.
The score is the number the spinner lands on.

(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						
	5						

[2]

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

..... [1]

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

..... [2]

Solution:

(a) (i)

sample space for spinner = $\{1, 2, 3, 4, 5\}$
 As the spinner spun once, so

$$P(\text{score is } 3) = \frac{\text{favourable outcomes}}{\text{total outcomes}}$$

$$= \frac{1}{5}$$

∵ There is
 1 count for
 3.
 total outcomes
 are 5.

$$(ii) P(\text{score is even}) = \frac{\text{favourable outcome}}{\text{total outcomes}}$$

$$= \frac{2}{5}$$

∵ There are
 two even
 2, 4

(b)

(i)

First spin

	+	1	2	3	4	5
	1	2	3	4	5	6
	2	3	4	5	6	7
Second spin	3	4	5	6	7	8
	4	5	6	7	8	9
	5	6	7	8	9	10

$$\textcircled{i)} P(\text{outcome is 4}) = \frac{\text{favourable outcomes}}{\text{total outcomes}}$$
$$= \frac{3}{25}$$

$$\textcircled{ii)} P(\text{outcome is greater than 6}) = \frac{\text{favourable outcomes}}{\text{total outcomes}}$$
$$= \frac{10}{25}$$
$$= \frac{2}{5}$$