Sample Space Diagrams





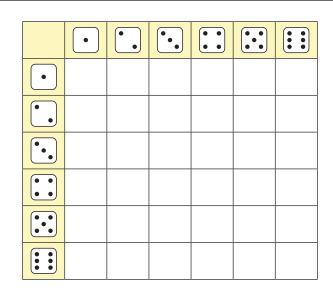
Section A

Dice Probability

- 1) Two fair dice are thrown and the scores are **ADDED** together.
 - Complete the sample space diagram
 - How many outcomes are there?
 - What is the probability of getting a score of '5'?
 - What is the probability of getting a score greater than '9'?
 - What is the probability of getting a score less than '7'?

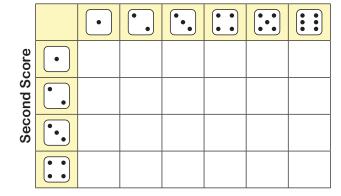
	•	•	••		
•					
•					
••					

- 2) Two fair dice are thrown and the scores are **MULTIPLIED** together.
 - Complete the sample space diagram
 - How many outcomes are there?
 - What is the probability of getting a score of '6'?
 - What is the probability of getting a score greater than '16'?
 - What is the probability of getting a score less than '4'?



- A six-faced dice and a four-faced dice are thrown. The first score is SUBTRACTED FROM the second score.
 - Complete the sample space diagram
 - How many outcomes are there?
 - What is the probability of getting a negative score?
 - What is the probability of getting a score ≥ 0?

First Score



Sample Space Diagrams

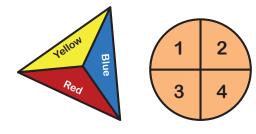




Section B

1) Jamie has two fair spinners.

One has three equal sections coloured red, blue and yellow. The other has four equal sections numbered 1, 2, 3 and 4. Jamie spins both spinners.



Complete the sample space diagram.

Colour	В	
Number	1	

- 2) A fair dice and a coin are thrown together.
 - a. Draw a sample space diagram to represent the possible outcomes.
 - b. What is the probability of getting an even number and a tails?
- 3) A game is played using the counters inside two bags.Bag 1 contains a green, purple and an orange counter.Bag 2 contains 3 counters with the numbers 4, 5 and 6 on them.
 - a. Draw a sample space diagram to show all the possible outcomes when one counter is taken from each bag.

- b. What is probability of someone picking a green counter and the number 4?
- c. Find the probability of taking an orange counter and a number greater than 4.