

Summer Term Maths Year 10

Use Sample Space Diagrams to List Outcomes

3 Amir flips a coin and rolls a die at the same time.

a) Complete the sample space diagram.

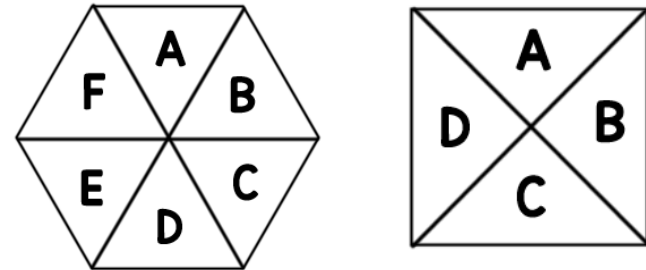
		Die					
		1	2	3	4	5	6
Coin	H	(1, H)					
	T						

(b) If he gets heads and an even number he wins a prize.

Work out the probability Amir wins a prize.

4 2 fair dice are rolled and the numbers are added together. Which score is the most likely to occur?

5 Mo spins these two spinners.



Find the probability

- (a) $P(2 \text{ of the same letter chosen})$
- (b) $P(\text{at least one letter B is chosen})$

6 2 fair coins are flipped.

Dora says "There are 3 possible outcomes, 2 heads, 2 tails and 1 head and 1 tail. Therefore the probability of getting 2 heads is a third"

Show that Dora is wrong.