Two fair spinners are spun. Each spinner will land on a number. Matt will get a score by adding the two numbers together.

a) Draw a sample space diagram to represent this information.

b) What is the probability that Matt scores
   i. A score which is prime?
   ii. A score of 6?
   iii. A score of 9 or more?

Alex is playing a game. He has two sets of cards. One set has three black cards, numbered 2, 4 and 6. The other set has three white cards numbered 1 and 3.

He works out his score by adding the numbers on the cards together.

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a) Complete the sample space diagram.

b) What is the probability that Alex gets
   i. An odd numbered score?
   ii. A score of 5 or less?

List all possible outcomes from when a coin is thrown and a picture card is selected from a deck of cards.

H | T
---|---
J | Q | K

Two coins are thrown. List all possible outcomes.

H | T
---|---
H | T

What is the probability of throwing a head and a tail?

What is the probability of both coins landing on the same side?

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