| List all possible outcomes from when a coin is thrown and a picture card is selected from a deck of cards. | Alex is playing a game. <br> He has two sets of cards. <br> One set has three black cards, numbered 2,4 and 6 . <br> The other set has three white cards numbered 1 and 3 . <br> 2 <br> 4 <br> 6 <br> 1 <br> He works out his score by adding the numbers on the cards together. <br> a) Complete the sample space diagram. | Two fair spinners are spun Each spinner will land on a number. Matt will get a score by adding the two numbers together. <br> a) Draw a sample space diagram to represent this information. |
| :---: | :---: | :---: |
| Two coins are thrown. List all possible outcomes. H | 3    <br>  2 4 6 |  |
| What is the probability of <br> throwing a head and a tail?$\quad \mathrm{H} \quad \mathrm{T}$ | b) What is the probability that Alex gets i. An odd numbered score? | b) What is the probability that Matt scores <br> i. A score which is prime? |
| What is the probability of both coins landing on the same side? | ii. A score of 5 or less? | ii. A score of 6? <br> iii. A score of 9 or more? |



