1. Create a sample space diagram that shows the possible outcomes when two dice are rolled

Find:

1. P(a total of 3)
2. P(a total of 7)
3. P(a total of 12)
4. P(a total that is not 7)
5. P(a total that is not 9)
6. P(a total that is an even number)
7. P(a total that is a prime number)
8. P(a total that is a square number)

Simplify your answers where possible

1. Create a sample space diagram that shows each outcome when two coins are flipped together

Find:

1. P(two heads)
2. P(two tails)
3. P(a head and a tail)

What is the most likely outcome when two 10p coins are flipped together?

1. Create a sample space diagram to show each outcome when a tetrahedral dice (numbered 1, 2, 3, 4) is rolled with a normal dice.
2. How many different outcomes are there?
3. How many different possible totals are there?
4. What is the most likely possible total? What is the probability of getting this total?
5. Create a sample space diagram that shows each of the following features when two normal dice are rolled together:
6. The product of the two numbers
7. The difference between the two numbers
8. The maximum of the two numbers