

Sample Space Homework

For the following, draw the appropriate sample space (as a table), and hence calculate the required probabilities.

1. After throwing two dice, the difference between the two numbers being:
 - a. 0
 - b. More than 3.
 - c. 4
2. After spinning two spinners, one with sides "A, B, C, D" and the other with sides "A, B":
 - a. An 'A' and a 'B' are seen.
 - b. An 'A' or a 'B' are seen.

3. After throwing a coin and a die:
 - a. Seeing a tails and a prime number.
 - b. Seeing a heads or a square number.

4. After throwing two dice, the product of the two numbers being:
 - a. equal to 12.
 - b. prime.
 - c. square.
 - d. triangular.

5. After throwing two die, the square of the sum of the two numbers being greater than 60.