

- 1 What is the probability of the following experiments?
 - a A card dealt from a normal deck of cards is a diamond.
 - b A day selected at random from the week is a weekend.
 - c A head results when a coin is tossed.
 - d A letter from the alphabet is a vowel.
 - e A two results when a die is rolled.
 - f A six is chosen from $\{2, 4, 6, 8, 10\}$.

- 2 A bag contains 5 blue and 3 red balls. Find the probability of selecting the following at random.
 - a A blue ball
 - b A red ball
 - c Not a red ball

- 3 Aaron chooses one ball at random from his golf bag. The table below shows the type and number of golf balls in his bag.

Type of golf ball	Number
B51 Impact	3
Maxfli	4
Pinnacle	13

Find the probability of Aaron choosing:

- a a Maxfli
 - b a Pinnacle
 - c a B51 Impact
 - d not a Maxfli
- 4 An unbiased coin is tossed three times. On the first two tosses the result is tails. What is the probability that the result of the third toss will be a tail?
 - 5 In Amber Ave there are 3 high school students, 4 primary school students and 5 preschool students. One student from Amber Ave is chosen at random. What is the probability that a primary school student is chosen?
 - 6 A box contains 3 blue, 4 green and 2 white counters. Find the probability of drawing at random a counter that is:
 - a blue
 - b green
 - c white
 - d not blue