**1.** A bag contains 7 red, 10 blue and 3 yellow balls. If a ball is drawn at random, find the probability that it is:

**a** blue **b** red **c** yellow

**d** not red **e** non yellow **f** white

**2.** A die is thrown once. Find the probability that it is:

**a** a six **b** an odd number **c** an even number

**d** one or five **e** zero **f** any number from 1 to 6

**3.** From the letters of the word ‘AUSTRALIA’, one letter is selected at random. What is the probability that the letter is:

**a** a vowel **b** a consonant **c** the letter A

**d** the letter S

**4.** A card is drawn at random from a normal pack of 52 cards. Find the probability that the card is:

**a** a spade **b** a black card **c** a queen

**d** a red card **e** not a club **f** an ace or a jack

**5.** A three-digit number is to be formed from the digits 4, 5 and 9. What is the probability that:

**a** the number formed is odd? **b** the number formed is even? **c** the number is less than 900?

**d** the number is divisible by 5?

**6.** The numbers from 1 to 10 are written on separate cards. One card is chosen at random. What is the probability that the number is:

**a** odd **b** even **c** seven

**d** more than seven **e** less than seven **f** zero

**g** a prime number **h** divisible by 3 **i** a factor of 5

**j** a multiple of 4

**7.** Rate each of the following events as being **certain**, **likely**, **even chance**, **unlikely**, or **impossible**

**(a)** Next semester every Tuesday, Wednesday and Thursday will be a holiday

**(b)** A normal die is thrown and a number from 1 to 6 appears on the uppermost face

**(c)** Of six cards that are randomly selected from a standard 52 card deck, at least one of them is black

**(d)** A coin in tossed 10 times and comes up Head each time

**(e)** Your Maths teacher challenges Roger Federer to a games of tennis and wins

**(f)** A normal coin is tossed once and comes up Tails

**8.** Arrange the following in order from **most likely** to most **unlikely**

**A** Throwing a die and a six landing uppermost

**B** Selecting a car at random in the school and it having a Victorian number plate

**C** Your Maths teacher is absent for your next class

**D** There will be a high tide at Gunnamatta some time in the next 24 hours

**E** The school holidays coming up at the end of the week will be cancelled

**F** It will rain tomorrow in Mt. Eliza