QUESTION **1** A card is drawn at random from a normal pack of 52 cards. Find the probability that the card is

a a diamond _____ **b** a red card _____ **c** a king _____

d not a club _____ **e** a red ace _____ **f** a black card _____

QUESTION **2** From the letters of the word FREQUENCY, one letter is selected at random. What is the probability that the letter is

a a vowel? _____ **b** a consonant? _____

c the letter R? _____

QUESTION **3** A die is thrown once. Find the probability that the number is

a a six _____ **b** an even number _____

c a number less than 5 _____ **d** seven _____

e a prime number _____ **f** a square number _____

QUESTION **4** A bag contains 8 white, 5 yellow and 7 blue balls. If a ball is drawn at random, find the probability that it is

a white _____ **b** yellow _____ **c** blue _____

d not white _____ **e** red _____ **f** either white or blue _____

QUESTION **5** A three-digit number is to be formed from the digits 4, 5 and 6 written on separate cards. What is the probability that the number formed is

a odd? _____ **b** even? _____

c less than 600? _____ **d** divisible by 3? _____

e divisible by 5? _____ **f** greater than 600? _____

QUESTION **1** Complete the following sentence.

The probability of any event is always in the range from _____ to _____.

QUESTION **2** A bag contains 6 red marbles and 2 green marbles. If one marble is drawn at random, what is the probability, as a decimal, that it is

a red? _____ **b** green? _____ **c** white? _____

QUESTION **3** A raffle ticket is drawn from a box containing 100 tickets numbered from 1 to 100. Find the percentage chance that the number of the ticket is

a divisible by 10 _____ **b** less than 10 _____

c greater than 10 _____ **d** a multiple of 5 _____

e greater than 90 _____ **f** a number containing the digit 9 _____

QUESTION **5** A bag holds 9 brown, 7 yellow and 4 white golf balls. If a ball is selected at random from the bag, what is the probability (as a fraction in its simplest form) that the ball is

a brown? _____ **b** yellow? _____

c white? _____ **d** brown or yellow? _____

e pink? _____ **f** brown, yellow or white? _____

g yellow or white? _____ **h** white or brown? _____

i not white? _____ **j** neither yellow nor brown nor white? _____

Page 6 **1** **a** $\frac{1}{4}$ **b** $\frac{1}{2}$ **c** $\frac{1}{13}$ **d** $\frac{3}{4}$ **e** $\frac{1}{26}$ **f** $\frac{1}{2}$ **2** **a** $\frac{1}{3}$ **b** $\frac{2}{3}$ **c** $\frac{1}{9}$ **3** **a** $\frac{1}{6}$ **b** $\frac{1}{2}$ **c** $\frac{2}{3}$ **d** 0 **e** $\frac{1}{2}$ **f** $\frac{1}{3}$ **4** **a** $\frac{2}{5}$ **b** $\frac{1}{4}$ **c** $\frac{7}{20}$ **d** $\frac{3}{5}$ **e** 0 **f** $\frac{3}{4}$ **5** **a** $\frac{1}{3}$ **b** $\frac{2}{3}$ **c** $\frac{2}{3}$ **d** 1 **e** $\frac{1}{3}$ **f** $\frac{1}{3}$ **6** **a** $\frac{4}{9}$ **b** $\frac{5}{9}$ **c** $\frac{1}{9}$ **d** 0 **e** $\frac{4}{9}$ **f** $\frac{1}{3}$ **7** **a** $\frac{1}{3}$ **b** $\frac{2}{3}$ **c** $\frac{2}{9}$ **d** $\frac{1}{9}$ **e** $\frac{5}{9}$ **f** $\frac{2}{9}$

Page 7 **1** **a** 0 to 1 **2** **a** 0·75 **b** 0·25 **c** 0 **3** **a** 10% **b** 9% **c** 90% **d** 20% **e** 10% **f** 19% **4** **a** 20% **b** 40% **c** 60% **d** 40% **5** **a** $\frac{9}{20}$ **b** $\frac{7}{20}$ **c** $\frac{1}{5}$ **d** $\frac{4}{5}$ **e** 0 **f** 1 **g** $\frac{11}{20}$ **h** $\frac{13}{20}$ **i** $\frac{4}{5}$ **j** 0