1 This Venn diagram shows the number of people in a group of 25 who own cats and/or dogs.
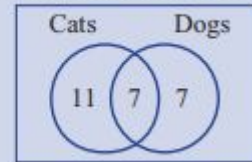
  a State the number of people who own:

    i a dog   **ii** a cat or a dog   **iii** only a cat

  b If a person is selected at random from this group, find the probability they will own:

    i a cat   **ii** a cat and a dog   **iii** only a dog

Arrange from lowest to highest: $\frac{1}{2}$, 0.4, 1 in 5, 39%, $\frac{3}{4}$, 1, 0, $\frac{9}{10}$, 0.62, 71%

A spinning wheel has 8 equal sectors numbered 1 to 8. On one spin of the wheel, find the following probabilities.

a Pr(5)   **b** Pr(even)   **c** Pr(not even)

d Pr(multiple of 3)   **e** Pr(factor of 12)   **f** Pr(odd or a factor of 12)

g Pr(both odd and a factor of 12)

Two coins are tossed.

a Copy and complete this tree diagram.

b State the total number of outcomes.

c Find the probability of obtaining:

    i 2 heads   **ii** no heads   **iii** 1 tail

    iv at least 1 tail   **v** 1 of each, a head and a tail

    vi at most 2 heads