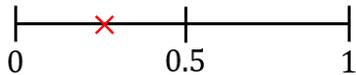


# Statistics and Probability Revision

**(a)**

A shop sells four types of ice cream – vanilla, chocolate, strawberry and banana. Kajal chooses a type of ice cream at random. On the probability scale, mark with a cross the probability that Kajal chooses vanilla ice cream.



**(b)**

A bag contains 7 red counters and 3 white counters. A counter is chosen from the bag at random. Circle the word that describes the probability of choosing a green counter.

Impossible

- Unlikely
- Evens
- Likely
- Certain

**(c)**

20 students choose their favourite colour. The results are listed below. Complete a frequency table to show the results.

blue red black red  
 yellow red blue blue  
 white black white red  
 red yellow blue white  
 white red red blue

| Colour | Tally | Frequency |
|--------|-------|-----------|
| Blue   |       | 5         |
| Red    |       | 7         |
| Black  |       | 2         |
| Yellow |       | 2         |
| White  |       | 4         |

**(d)**

The pictogram shows the number of different species of bird that visited a garden.

|           |  |
|-----------|--|
| Magpie    |  |
| Starling  |  |
| Pigeon    |  |
| Chaffinch |  |
| Blackbird |  |

(i) One species of bird visited the garden 10 times. Which one?

*starling*

(ii) 9 blackbirds visited the garden. Show this information on the pictogram.

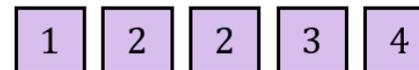
(iii) Work out the total number of magpies and pigeons that visited the garden.

13

**Key:** represents 4 birds

**(e)**

Here are five cards, each with a number on it.



A card is chosen at random.

(i) Work out the probability that the number on the card chosen is 2.

$$\frac{2}{5}$$

(ii) Work out the probability that the number on the card chosen is less than 10.

$$1$$

**(f)**

Ismail is making a packed lunch, made up of a sandwich and a snack. He can choose one item from each list.

| Sandwich   | Snack          |
|------------|----------------|
| Cheese (C) | Fruit (F)      |
| Tuna (T)   | Biscuit (B)    |
| Ham (H)    | Rice Cakes (R) |

Write down all the possible combinations Ismail can choose.

- CF, CB, CR*
- TF, TB, TR*
- HF, HB, HR*