Birds in the Garden 2

A Numicon fractions activity for pairs.

What you will need

- Multiple sets of 1–10 Numicon Shapes
- One copy of this sheet per pair (please note: this is an A3 document and needs to be printed at 100%)
- The Bird Cards cut from this sheet and placed face down in a pile
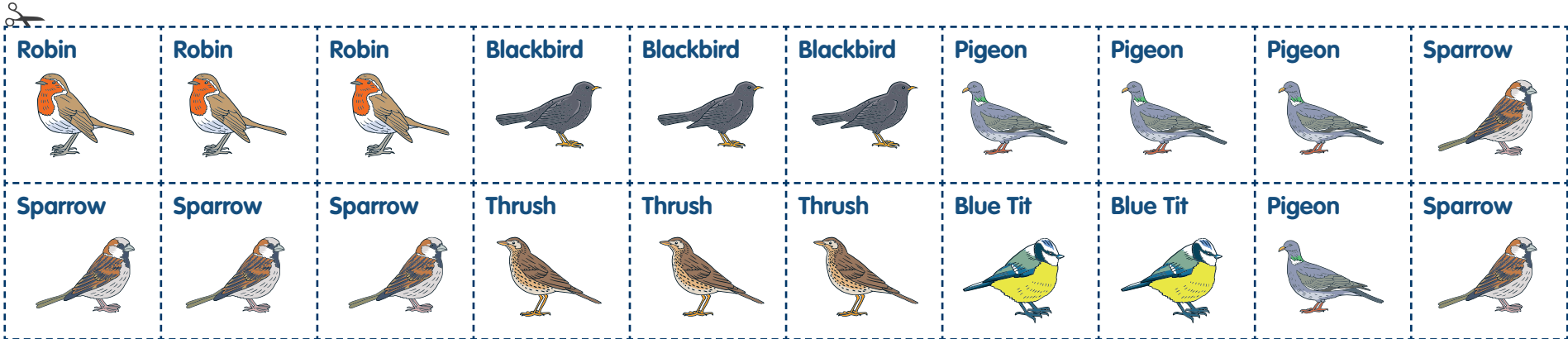- 2 Garden Cards cut from this sheet

What to do

- Shuffle the pile of Bird Cards. The cards show some different types of birds that can be found in a garden.
- Up to 10 birds can visit your garden at a time. This is shown on your Garden Card.
- Take it in turns to select one card at a time from the pile and place it onto your 10-shape Garden Card until you collect 10 birds.
- Once you have collected all ten, rearrange them into groups of each type of bird on the Garden Card.
- Talk to your partner about how many of each bird you have out of 10, for example '3 out of 10 birds are robins'.
- Now show this as a fraction. For example, if 3 out of 10 birds are robins, that is $\frac{3}{10}$ (three tenths).
- Add up the fractions: what is the total?
- Repeat the activity, shuffling the cards first so you get different numbers of birds.

Extensions and questions

- Which birds make up the largest fraction of the total number of birds?
- Which birds make up the smallest fraction of the total number of birds?
- How many more… are in your garden than ….?
- Can you show your fractions in any other ways? For example, $\frac{2}{10}$ is the same as $\frac{1}{5}$.
- Compare the fractions with your partner to see who has more of each bird.
- Together, combine the two garden cards and add up the types of bird in both to find fractions out of 20.
- Repeat the activity with a garden that can have 8 or 12 birds visiting at once. (Use a Numicon Shape or Shapes as the garden.)

Bird Cards

Garden Cards