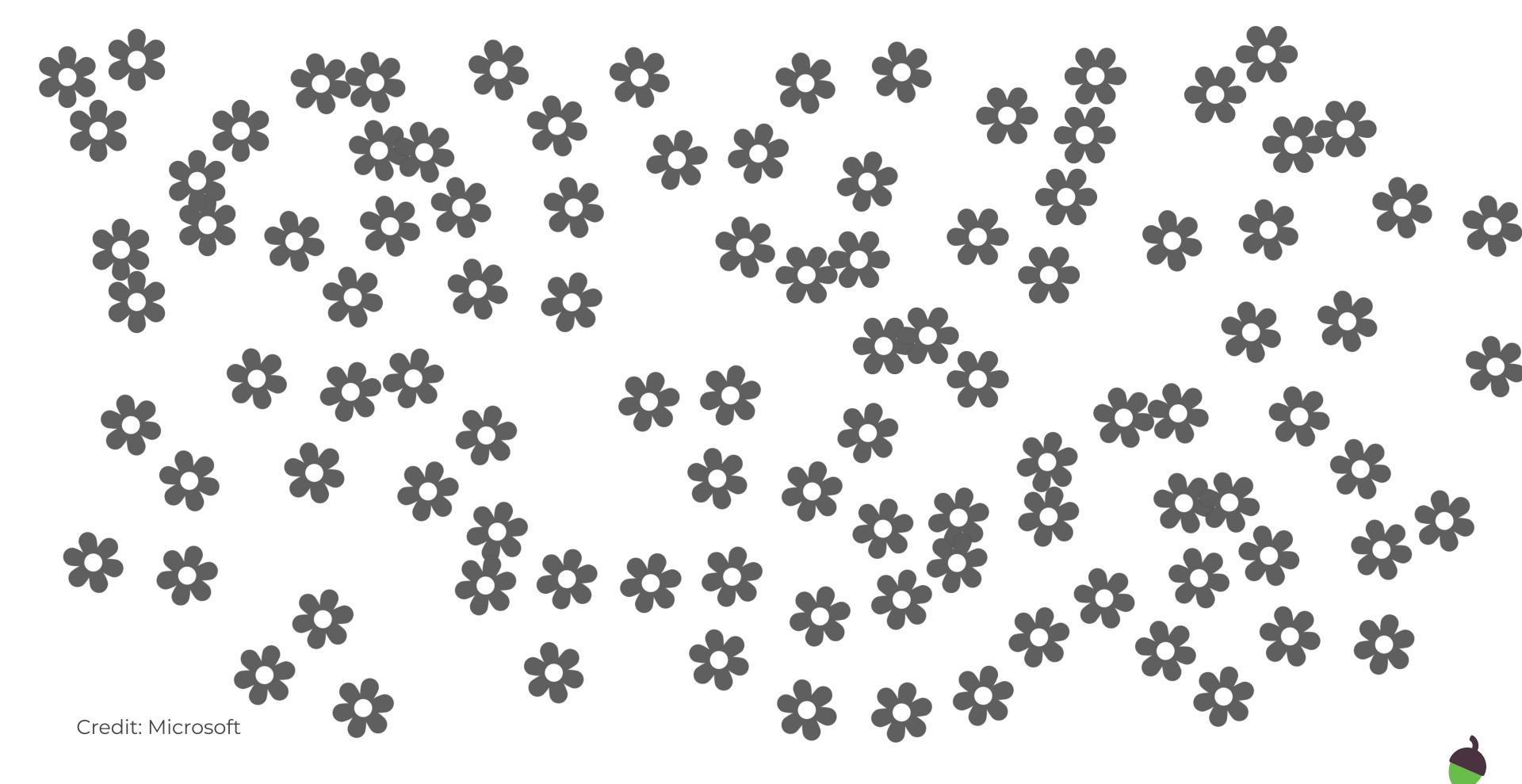
Ecological relationships and classification Lesson 5 - Random Sampling

Biology - Key Stage 3

Miss Lewis





Writing a method

How to begin a lesson:



Writing a method

Write a method for the practical using quadrats:						
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Fill in the blanks

1. Measure the area of the sam	pling site using a
2. Use a random number	to select coordinates from the grid.
3. Place your or	n the field at the coordinates.
4 and record tl	he number of daisies inside the quadrat.
5. Repeat this at least	more times by placing the quadrat in a
different random position each	n time.
6.Calculate the	by dividing the total of all the by
the number of auadrats use.	



Task

Miss Lewis divided the field into a grid and used a random number generator to place 10 1m² quadrats in random positions.

You need to complete the investigation by:

1. counting the number of organisms in each quadrat

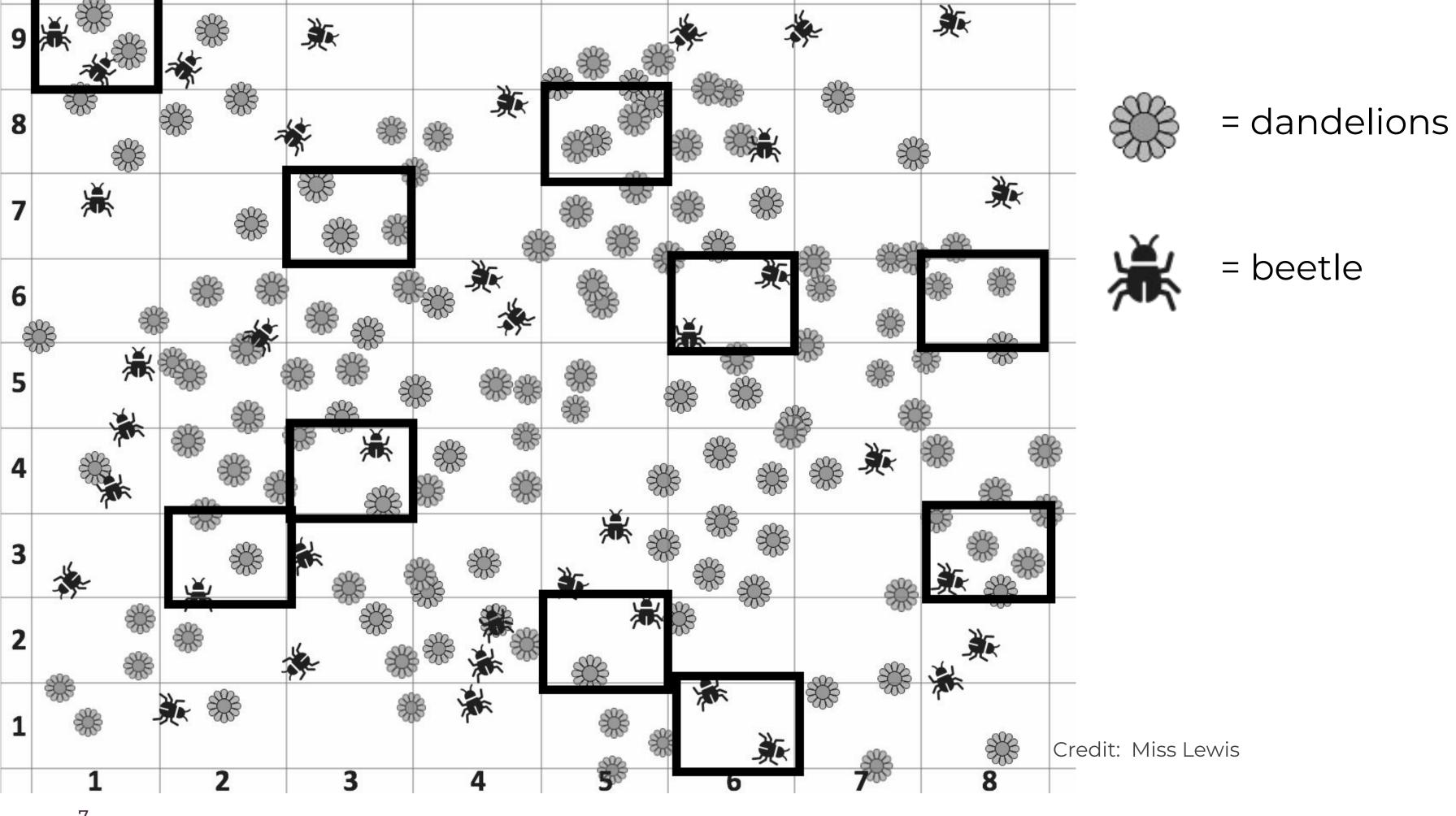
2. calculating a mean

3. find out which organisms has the highest population per m²

Dandelions =

Beetles =







Task

A student wants to calculate the mean number of buttercups in the school playground.

This is the method used.

- 1. Throw a quadrat over your shoulder.
- 2. Count the number of clover plants inside the quadrat.
- 3. Repeat step **1** and step **2** four more times.

How could this method be improved?



Task

How could this method b	be improved?	
	••••••••••••••	

