



Attenborough's Animal Kingdom: Place Value Challenges

Choose the questions that will stretch your thinking.

Start wherever you feel confident, then move on to a trickier challenge when you are ready. Show your working clearly and explain your reasoning.

1. A wildlife park counted **3,482** butterflies.
What is the value of the digit **4**?
2. A seal rescue centre cared for **6,205** seals.
Write this number in words.
3. A rainforest team found **7,364** insects.
Partition this number into thousands, hundreds, tens and ones.
4. A ranger spotted **2,998** flamingos.
How many more flamingos would they need to spot to make **3,000**?
5. Two habitats are being protected. One has **24,681** trees and the other has **24,618** trees.
Which habitat has more trees? Explain how you know.
6. A conservation charity raised **46,749** to protect polar bears.
Round this number to the nearest **10**, **100** and **1,000**.
7. A research team counted **38,450** fish in a coral reef.
What number is **10,000 more**? What number is **1,000 less**?

8. Use the digits **4, 0, 9, 2 and 7** once each to make:

- a) the largest possible five-digit number
- b) the smallest possible five-digit number

9. A wildlife campaign reached **284,649** people.

Round this number to the nearest **10, 100, 1,000 and 10,000**.

10. A conservation report says there are approximately **650,000** sea birds in a region, rounded to the nearest **10,000**.

What is the smallest possible actual number? What is the greatest possible actual number?

11. Three animal reserves recorded these visitor numbers:

286,409 268,940 286,049

Put them in order from greatest to smallest. Then find the difference between the greatest and smallest numbers.

12. A nature reserve has a six-digit number of insects. The number:

- rounds to **450,000** to the nearest **10,000**
- has **7** in the thousands place
- has a hundreds digit that is double its tens digit
- ends in **5**

Create **three possible numbers** that fit all the clues. Explain why each one works.