

# Discussion Problems

## Represent Numbers to 100

### National Curriculum Objectives:

Mathematics Year 3: (3N1b) [Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number](#)

Mathematics Year 3: (3N4) [Identify, represent and estimate numbers using different representations](#)

### About this resource:

This resource has been designed for pupils who understand the concepts within this step. It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

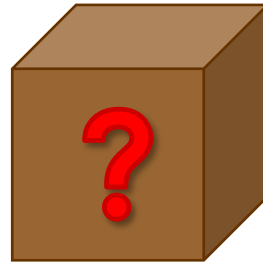
There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 3 Place Value](#) resources.

# Represent Numbers to 100

1. Zop the Alien is trying to find out what number is in the box. He knows it is a 2 digit number less than 70 but more than 30. It also has more than 3 ones.



What numbers could be in Zop's box? Add an extra clue of your own to help Zop work out the number.

DP

2. Martha is using animals to represent two-digit numbers.



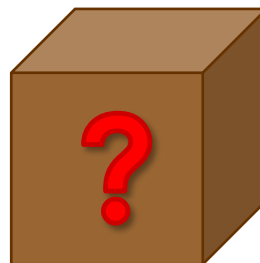
Investigate the numbers she has made. The animals can represent any number between 1 and 20.

Create your own investigation on representing numbers using different animals and share with a partner.

DP

# Represent Numbers to 100

1. Zop the Alien is trying to find out what number is in the box. He knows it is a 2 digit number less than 70 but more than 30. It also has more than 3 ones.



What numbers could be in Zop's box? Add an extra clue of your own to help Zop work out the number. **Various answers, for example: 44, 56, 67**

DP

2. Martha is using animals to represent two-digit numbers. **The following answers are based on a snail equals 10 and a worm equals 1.**



Investigate the numbers she has made. The animals can represent any number between 1 and 20.

Create your own investigation on representing numbers using different animals and share with a partner. **Various answers that demonstrate using animals to represent tens and ones to make a number less than 100.**

DP