

Investigating number sequences

Rules

- Start with any whole number between 10 and 100.
- If the number is even, halve it.
- If the number is odd, add 1. Halve this number.
- Continue doing this until you reach the number 1.

1. Start with the number 20, and apply the rules. Write the sequence.
2. How many steps did it take to get to 1?
3. Choose three different start numbers and write the sequences. How many steps did each one take?
4. Which number between 10 and 100 takes the most steps to get to 1?