

Today we are going to make halving chains: we halve even numbers and add one to odd numbers.

1. Start with the number 20. Half of twenty is 10.

(20→10)

2. Then you are going to work out what half of 10 is.

(20→10→5)

3. The next step you cannot do as 5 is an odd number so instead you are going to add 1.

(20→10→5→6)

4. You are then going to carry on this pattern until you reach the number 1.

Today you are going to try and find the longest halving chain.  
Remember you are working with numbers 1-20.

Think about whether it is better to start with an odd or even number.