

Lesson 1

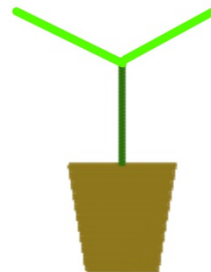
The Amazing
Splitting Plant
Nrich challenge



The Amazing Splitting Plant

The splitting plant grows in a special way.

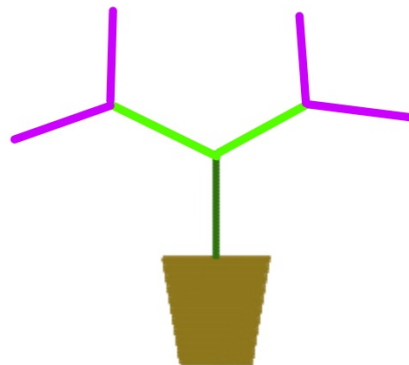
In the first week, the stem splits into two branches.



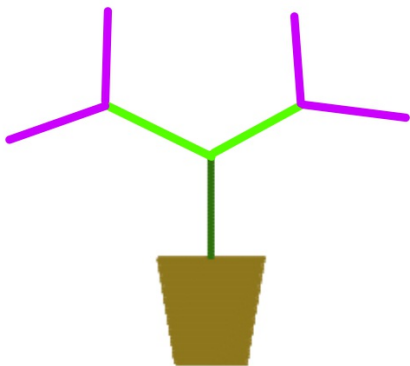
The Amazing Splitting Plant

In the second week, each of these two branches split into another two branches - making four branches altogether.

Top tip: use a different colour for each week.



The Amazing Splitting Plant



This keeps happening every week, until at the end of the fourth week each branch grows a flower.

How many flowers will the plant have?

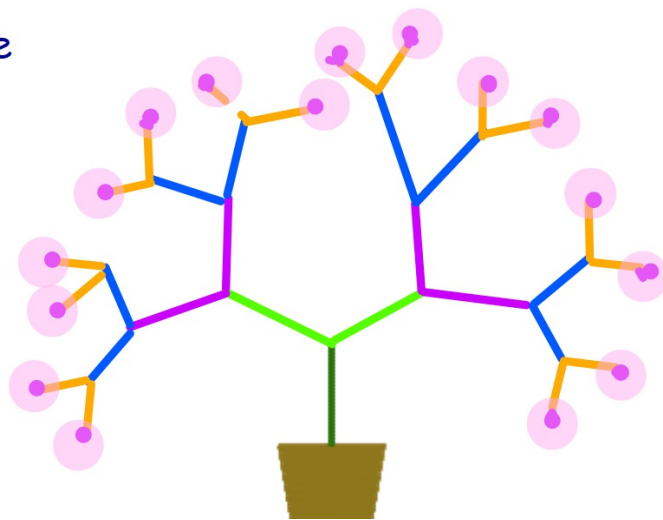
You have a go!

NB: You may want to do this all together, step by

The Amazing Splitting Plant

Count how many flowers there
will be

Did you get the
same answer?



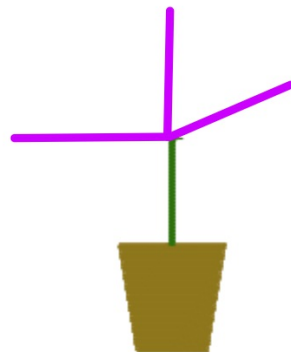
The Amazing Splitting Plant

This splitting plant grows in a different way.

You have a go!

In the first week, the stem splits into three branches.

How many flowers will there be after 4 weeks?



The Amazing Splitting Plant

What did you find out?

How many flowers did the plant grow?

What would happen if it grew for one more week?

