Drawing Algorithm

What is an algorithm? A series of instructions to complete a task.

Use the Programming Key to the left to answer the following questions.

For example:

“Move one square forward, Move one square forward, Fill-in square with color,”

would be written as:

→  →  🎨

A full example is given below of an image to draw, the plain-English algorithm, and the algorithm in symbols. Note that the algorithm always starts in the upper leftmost corner.

“Step forward, fill-in, step forward, next row, back, back, fill-in, step forward, step forward, fill-in, next row, back, back step forward, fill-in, step forward”

→  🎨  ↓
←  ←
←  ←
→  →

Your turn!

Write the algorithm in symbols for following drawings.
Now think about making the code a little shorter. For example, what could you replace “back, back” with?

Possibly $\leftarrow 2$

You can use steps like these to make the algorithm shorter so it’s easier to read.

Keep going! Now write an algorithm in symbols to draw exactly the images below: