```
In[55]:= SetDirectory[NotebookDirectory[]];
 layers = 6;
output = {};
eqTriangle[length_, \Delta x_-, \Delta y_-, \Delta z_-] :=
   Graphics3D[{Opacity[0], EdgeForm[Thick], Polygon[{{(-length / 2) + <math>\Delta x, \Delta y, \Delta z}},
          \{\Delta x, (length * Sqrt[3] / 2) + \Delta y, \Delta z\}, \{(length / 2) + \Delta x, \Delta y, \Delta z\}\}\}\}\};
radius[length_] := length / Sqrt[3];
pyramidUp[length_, \Delta x_-, \Delta y_-, \Delta z_-] := Graphics3D[
     {Opacity[0], EdgeForm[Thick], Tetrahedron[{{(radius[length]) * Cos[7\pi/6] + \Delta x,
           (radius[length]) * Sin[7\pi/6] + \Delta y, (radius[length]) * Sin[7\pi/6] + \Delta z,
          \{\Delta x, (radius[length]) + \Delta y, (radius[length]) * Sin[7 \pi / 6] + \Delta z\},
          \{(radius[length]) * Cos[11 \pi / 6] + \Delta x, (radius[length]) * Sin[11 \pi / 6] + \Delta y, \}
           (radius[length]) * Sin[7 \pi / 6] + \Delta z, \{\Delta x, \Delta y, (radius[length]) + \Delta z}}]}];
pyramidDown[length_, \Delta x_, \Delta y_, \Delta z_] := Graphics3D[
     {Opacity[0], EdgeForm[Thick], Tetrahedron[{{(radius[length]) * Cos[7\pi/6] + \Delta x,
           (radius[length]) * Sin[7 \pi / 6] + \Delta y, - (radius[length]) * Sin[7 \pi / 6] + \Delta z,
          \{\Delta x, (radius[length]) + \Delta y, - (radius[length]) * Sin[7 \pi / 6] + \Delta z\},
          \{(radius[length]) * Cos[11 \pi / 6] + \Delta x, (radius[length]) * Sin[11 \pi / 6] + \Delta y, \}
           - (radius[length]) * Sin[7\pi/6] + \Delta z, {\Delta x, \Delta y, - (radius[length]) + \Delta z}}]}];
 serpPyramid[length_, \Delta x_, \Delta y_, \Delta z_, numLayers_] :=
    If[numLayers == layers, AppendTo[output, pyramidUp[length, \Delta x, \Delta y, \Delta z]];
     serpPyramid[length / 2, \Delta x, \Delta y, \Delta z, numLayers - 1],
     AppendTo[output, pyramidDown[length, \Delta x, \Delta y, \Delta z]]; If[numLayers == 0,
       "Base reached", serpPyramid[length/2, (radius[length]) * Cos[7\pi/6] + \Delta x,
        (radius[length]) * Sin[7 \pi / 6] + \Delta y, (radius[length]) * Sin[7 \pi / 6] + \Delta z,
        numLayers - 1]; serpPyramid[length / 2, \Delta x, (radius[length]) + \Delta y,
        (radius[length]) * Sin[7 \pi / 6] + \Delta z, numLayers - 1]; serpPyramid[length / 2,
        (radius[length]) * Cos[11 \pi / 6] + \Delta x, (radius[length]) * Sin[11 \pi / 6] + \Delta y,
        (radius[length]) * Sin[7 \pi / 6] + \Delta z, numLayers - 1];
       serpPyramid[length / 2, \Delta x, \Delta y, (radius[length]) + \Delta z, numLayers - 1]]];
 serpPyramid[16, 20, 0, 0, layers];
 Show[output]
Export["Sierpinski.Pyramid.pdf", EvaluationNotebook[]];
```

