

Ingen fil har valts

4.1 Box-counting dimension

a)

```
In[ ]:= (*Define the object and determine its size at different scales*)
object = {{{1, 2}, {3, 4}}, {{5, 6}, {7, 8}}};
scaleFactor = 3;
(*Count the number of boxes*) numBoxes = Length[object] * Length[object];

(*Calculate the dimension using the formula: dimension =
  log(number of boxes) / log(scale factor) *)
dimension = Log[numBoxes] / Log[scaleFactor];

(*Print the result*)
Print[dimension]

Log[4]
Log[3]
```