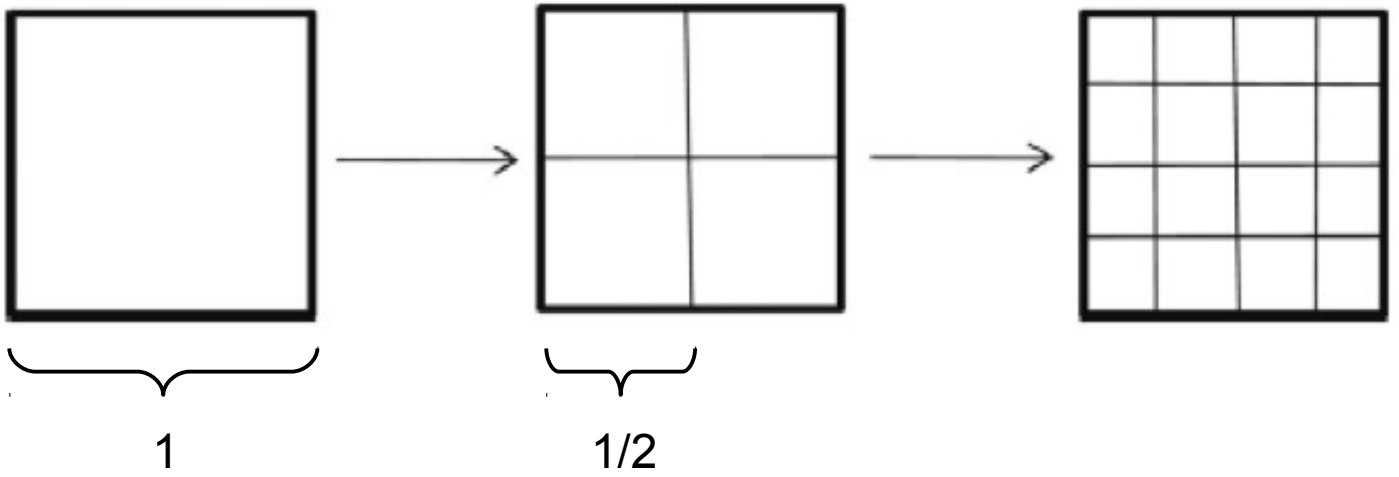
Fractal Dimension

"*N* parts scaled by 1/*M* "

Dimension = log *N* / log *M*

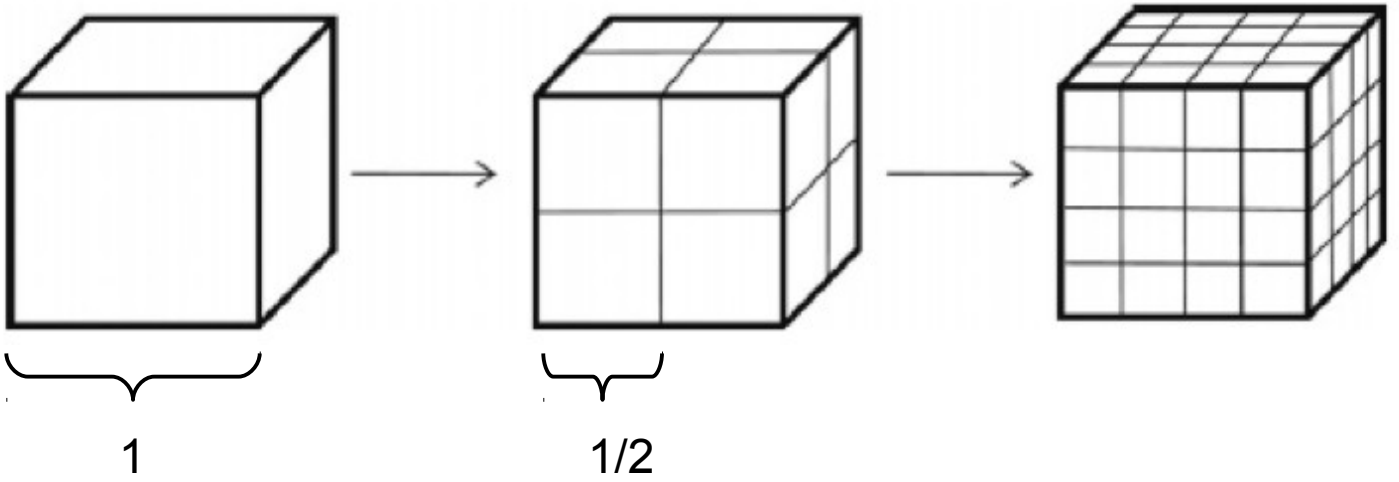
Ordinary Dimension: Square



4 parts scaled by 1/2

Dimension = log 4 / log 2 = 2.0

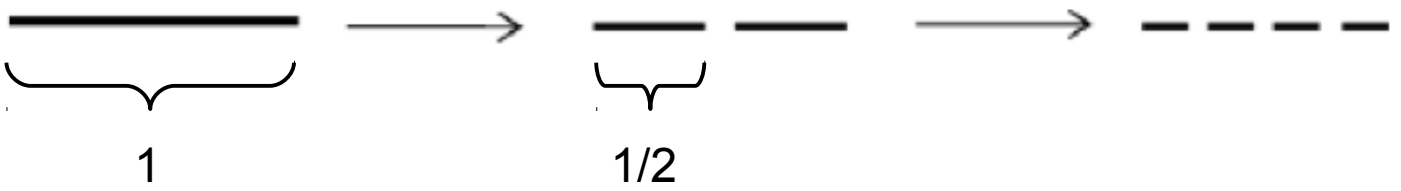
Ordinary Dimension: Cube



8 parts scaled by 1/2

Dimension = log 8 / log 2 = 3.0

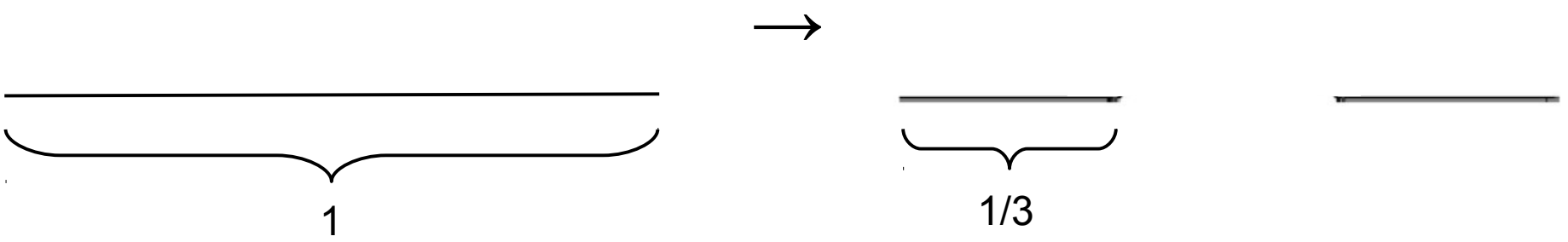
Ordinary Dimension: Line



2 parts scaled by 1/2

Dimension = log 2 / log 2 = 1.0

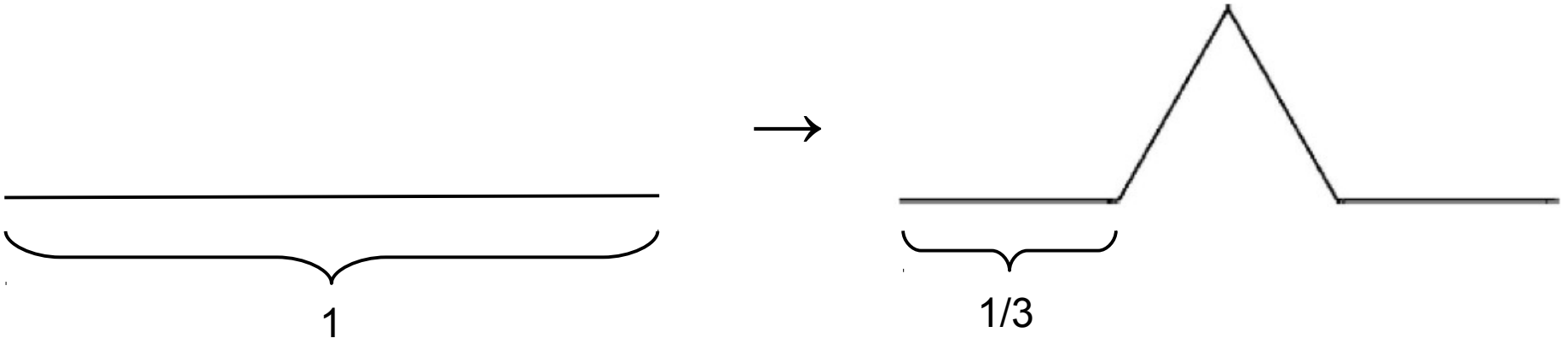
Fractal Dimension: Cantor Set



2 parts scaled by 1/3

Dimension = log 2 / log 3 = 0.63

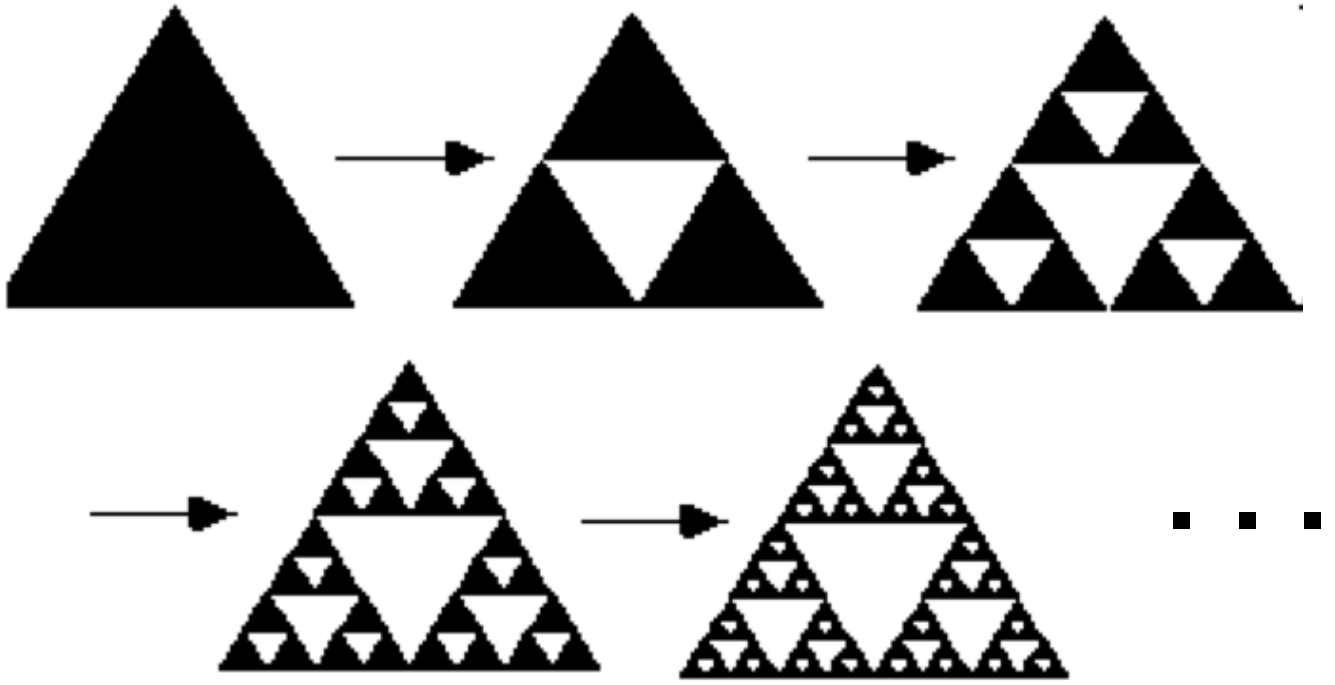
Fractal Dimension: Koch Curve



4 parts scaled by 1/3

Dimension = log 4 / log 3 = 1.26

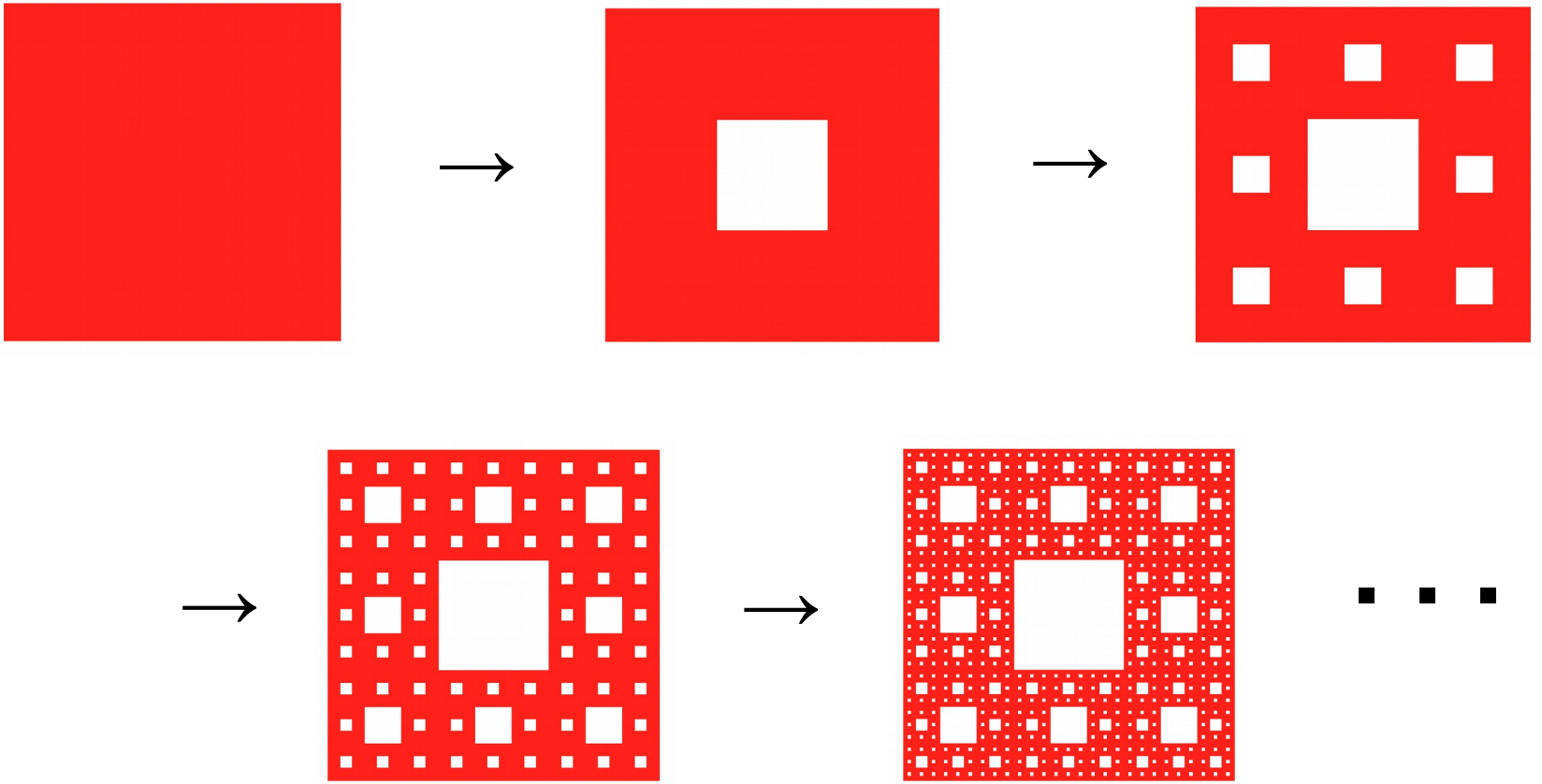
Fractal Dimension: Sierpinski Triangle



3 parts scaled by 1/2

Dimension = log 3 / log 2 = 1.58

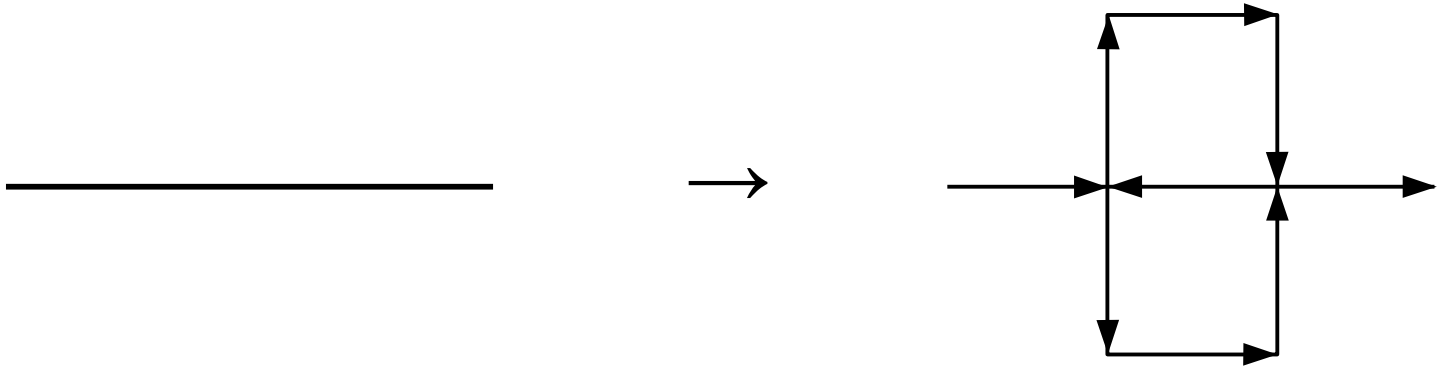
Fractal Dimension: Sierpinski Carpet



8 parts scaled by 1/3

Dimension = log 8 / log 3 = 1.89

Fractal Dimension: Peano Curve



9 parts scaled by 1/3

Dimension = log 9 / log 3 = 2.0