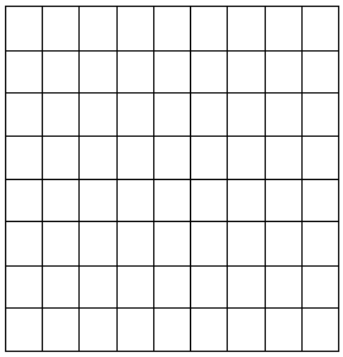
INFINITY

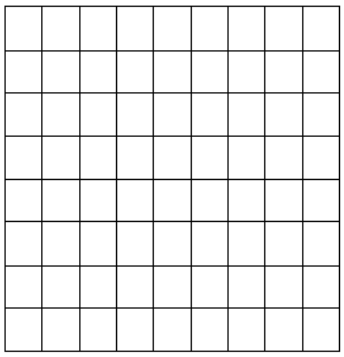
Infinity can be smaller than you think!

1. Shade each grid to represent each of the five fractions.

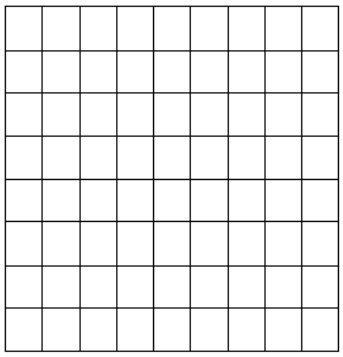
1/2



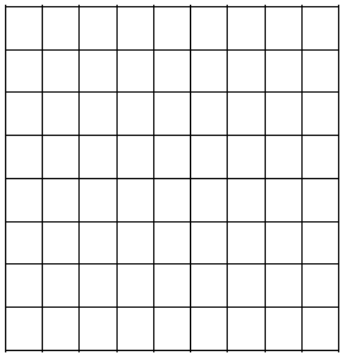
1/4



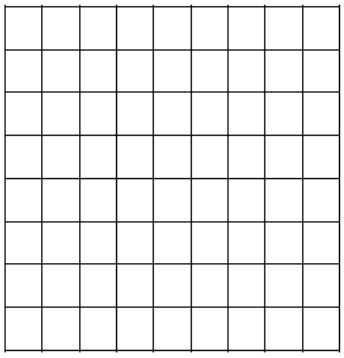
1/8

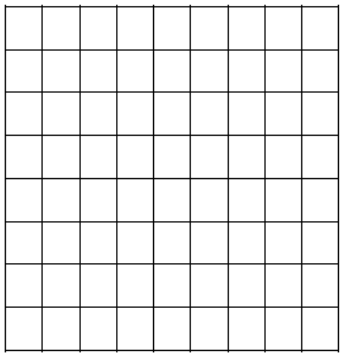


1/16



1/32





2. Use a pair of scissors to cut out the shaded parts.

3. Imagine continuing to shade more and more fractions in this pattern (like 1/64, 1/128, 1/256 ... and so on) and cutting out the shaded parts forever. If you were to join all the shaded parts to form a new shape, how big would that shape be? Would it fit on your desk? In your classroom? In your school?