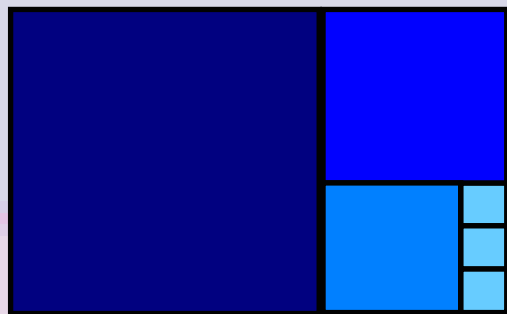


A number is rational if and only if it can be expressed as a finite continued fraction



$$1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{3}}}$$

# Continued Fractions

- Relates to the oldest algorithm known to Greek Mathematicians 300 BC  
Euclid's Algorithm (gcf)

## SUNSHINE STATE STANDARDS...

MA.A.1.3.1

MA.A.3.3.1

MA.C.2.3.1

MA.A.1.3.4

MA.A.3.4.3

MA.C.2.3.2