

# Flips Are For Gymnasts

Simplify the following expressions:

a.  $1 + \frac{1}{1+1}$

b.  $1 + \frac{1}{1 + \frac{1}{1+1}}$

c.  $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1+1}}}$

d.  $1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1+1}}}}$

See if you can discover a pattern and give the value of the following.

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