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# PiAppx.py
""" Estimates pi with a fraction.

Inputs an integer numerator and determines
the best denominator so that the ratio is as
close to pi as possible. Showcases the floor
function from the math module."""


import math
num = input('Enter a positive integer greater than three: ')
# There are two possible denominators and they
# are the two closest integers to num/pi
d1 = math.floor(num/math.pi)
errD1 = abs(num/d1 - math.pi)
d2 = d1+1
errD2 = abs(num/d2 - math.pi)
if errD1 < errD2:
    print '\n| %1d/%1d  - pi | = %8.3e' %(num,d1,errD1)
else:
    print '\n| %1d/%1d  - pi | = %8.3e' %(num,d2,errD2)
```