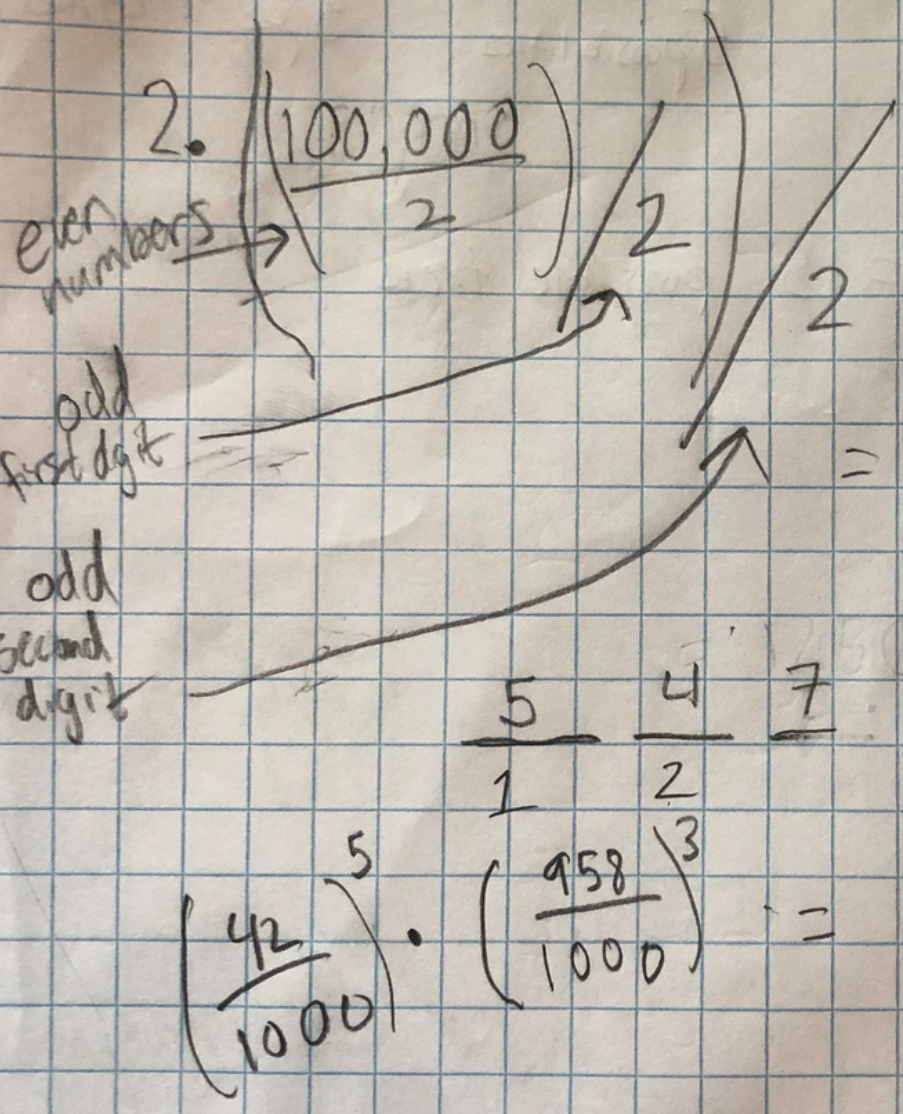
1. $1 - \left(\frac{8}{15}\right)^2 = 71.55\%$

2. 

$$\frac{5}{1}\ \frac{4}{2}\ \frac{7}{}\ \frac{6}{}\ \frac{5}{5} = \frac{42}{1,000}$$

$$\left(\frac{42}{1000}\right)^5 \cdot \left(\frac{958}{1000}\right)^3 = 1.14E-7$$

$.000000114\%$

3. Yes, you could roll 3,3,3 and satisfy B, but fail A. You could also roll 4,4,4 and satisfy both. Or 4,5,2 and satisfy A, but not B

1. $\left(\frac{1}{4}\right)^5 \cdot x = .5$ ← 50% chance of one flush

$x = 512$

2.