

2 coins: 25%

HH, HT, TH, TT

1/4

3 coins: ~~37.5%~~ 37.5%

HHH, HHT, HTH, TTH, THT, T³, T²H

3/8

4 coins: 37.5%

HHHH

HHTT

HHTT

HTHT

HTHT

HTTH

HTTH

THTH

H²TT

THTH

TTHT

TTHT

HHH

HHT

HTH

HTT

THH

THT

TTH

TTT

6/16

10/32

$$F_6 = \left\{ \frac{0}{1}, \frac{1}{6}, \frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{2}{5}, \frac{1}{2}, \frac{3}{5}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{1}{1} \right\}$$

$$\frac{12}{21} \rightarrow \frac{18}{28}$$

⋮

$$\frac{32}{55} \rightarrow \frac{42}{66}$$



$$\frac{2}{2} = \frac{1}{1} \rightarrow \frac{2}{2} \text{ NOT in } F_6$$

$$\frac{4}{6} = \frac{2}{3} \rightarrow \frac{4}{6} \text{ NOT in } F_6$$

$$P = \frac{12}{21} \mid \#F_6 = 13$$

Primes seem to add to F_n big.

$$\#F_{11} = 33 + 10 = 43$$

$$\#F_{12} = 43 + 4 = 47$$