

$\frac{12}{52}$ Prop face card

$\frac{40}{52}$ Not a face card

Head = $\frac{1}{2}$
tail = $\frac{1}{2}$

$\frac{12}{52}$ find $\frac{1}{2} = \frac{12}{52} \times$

win

$\left(\frac{12}{52} \text{ and } \frac{1}{2}\right)$ or $\left(\frac{12}{52} \text{ and } \frac{1}{2}\right) \dots \4

$\left(\frac{40}{52} \text{ and } \frac{1}{2}\right)$ or $\left(\frac{40}{52} \text{ and } \frac{1}{2}\right) \dots \text{lose } \2

5

once \$500

$\frac{1}{100}$

two \$110

$\frac{2}{100}$

4 \$20

$\frac{4}{100}$