

There are twelve possible outcomes in the sample space:

{H1, H2, H3, H4, H5, H6, T1, T2, T3, T4, T5, T6}

The event space has two possible outcomes: {T1, T2}

The probability of flipping tails and a number less than 3 is $\frac{2}{12}$, or $\frac{1}{6}$.