

Equals $1/e$
as $n \rightarrow \infty$

Equivalent

The diagram consists of two nested rectangles. The outer rectangle contains the expression $1 - (1 - 1/n)^{n(m/n)}$. The inner rectangle contains the expression $1 - 1/n$. Arrows point from the text labels to these expressions and the limit process.

$$1 - (1 - 1/n)^{n(m/n)}$$

$$1 - e^{-m/n}$$

Probability some
target **X** not hit
by a dart

Probability at
least one dart
hits target **X**