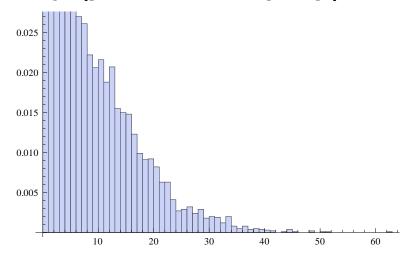
```
P0 = 100; M = 100; \sigma = 0.4; r = 0.04; T = 1 / 12;
n = 10000; dt = T/n;
Timing [
 W = RandomReal [NormalDistribution[], {n}] * Sqrt[T];
 PE = 0; PV = 0; p = {};
 For [i = 1, i < n+1, i++,
  P = Exp[T (r - \sigma^2 / 2) + \sigma W[[i]]];
  (*
  P2=Which[P \ge 1.5, 16, P \ge 1.4, 8, P \ge 1.3, 4, P \ge 1.2, 2, P \ge 1.2, 1, P < 1.2, 0]0.8;
  P2=Which[P \ge 1.3, 20, P < 1.3, 0];
  P2=Which[P \ge 1.5, 16, P \ge 1.4, 8, P \ge 1.3, 4, P \ge 1.2, 2, P \ge 1.1, 1, P \ge 1, 0.5, P < 1, 0];
  P2=Which [P \ge 1.5, 16, P \ge 1.4, 8, P \ge 1.3, 4, P \ge 1.2, 2, P \ge 1.1, 1, P \ge 1, 0.5, P \ge 0.9, 0.1, P < 0.9, 0]/5;
  P2 = Max[P-1, 0] * 100;
  AppendTo[p, P2];
  PE += P2;
  PV += P2 ^ 2;
 ];
 {"Mean:", Exp[-r T] PE /n, "StD of Mean:",
  Sqrt[Exp[-2rT]/n/(n-1)(PV-PE^2/n)]
{0.39, {Mean:, 4.77754, StD of Mean:, 0.0735602}}
oder eben 1 € pro 10 % rednite!!!
stellt dir diesne werbe slogan vor.
   Börsenspiel - 1 € echten Euro für 10 % Rendite
ja ist nice
aber der anfang wird hart
Also für 50 cent gibt es diese auszahlunge (in €€€!)
```

Histogram [p , Automatic, "ProbabilityDensity"]



Tally[p] // N

 $\{\{0.,\,9471.\}\,,\,\{1.6,\,426.\}\,,\,\{6.4,\,14.\}\,,\,\{3.2,\,85.\}\,,\,\{12.8,\,4.\}\}$