

```
In[31]:= probs[n_] := Module[{tot, list},
  list = Table[Binomial[n, m], {m, 0, n}];
  tot = Total[list];
  list/tot
]
```

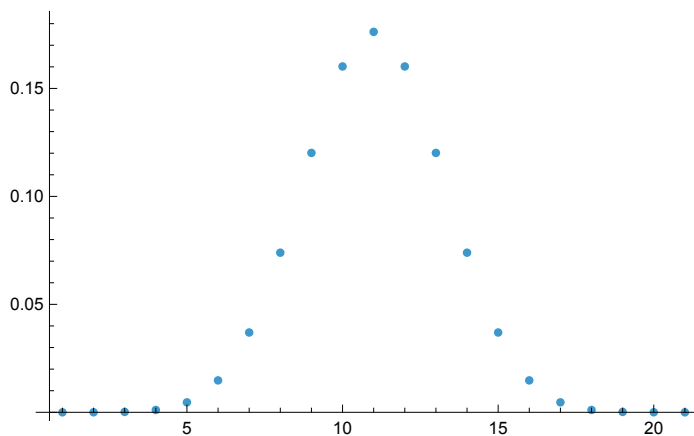
```
In[32]:= probs[4]
```

```
Out[32]=
```

$$\left\{ \frac{1}{16}, \frac{1}{4}, \frac{3}{8}, \frac{1}{4}, \frac{1}{16} \right\}$$

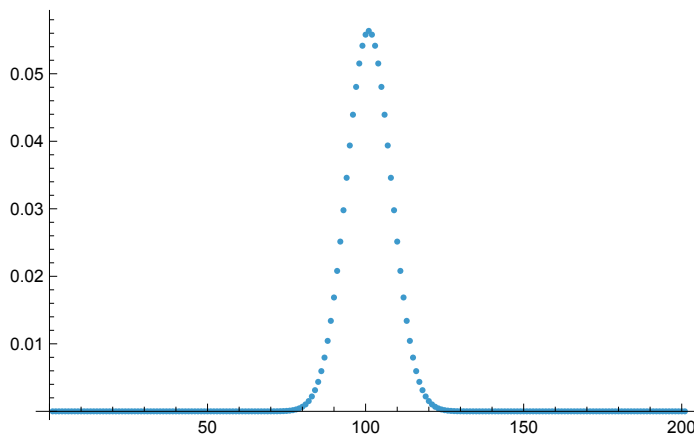
```
In[33]:= ListPlot[probs[20], PlotRange → All]
```

```
Out[33]=
```



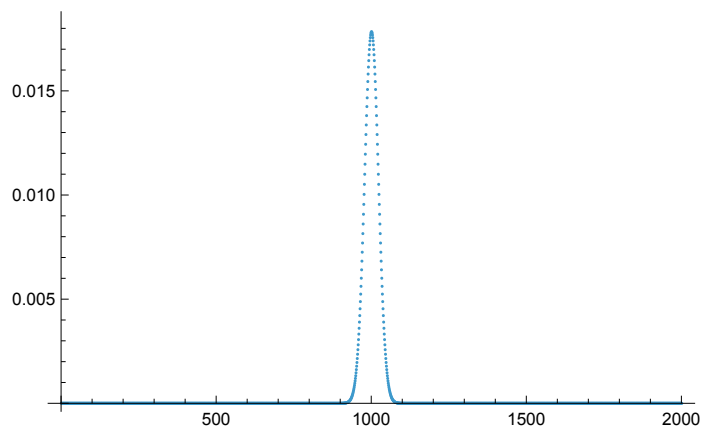
```
In[34]:= ListPlot[probs[200], PlotRange → All]
```

```
Out[34]=
```



```
In[35]:= ListPlot[probs[2000], PlotRange → All]
```

Out[35]=



```
In[37]:= ListPlot[probs[20000], PlotRange → All, Joined → True]
```

Out[37]=

