

## Page 507 Example 9

### Calculating binomial probabilities

TI-84 Plus

```
binomPdf(7,1/6,3)
.0781428612
```

$${}^7nCr_3 \left(\frac{1}{6}\right)^3 \left(\frac{5}{6}\right)^{7-3}$$

```
.0781428612
```

```
binomcdf(7,1/6,3)
.9823673983
```

$$\sum_{R=0}^3 \left( {}^7nCr_R \left(\frac{1}{6}\right)^R \left(\frac{5}{6}\right)^{7-R} \right)$$

```
.9823673983
```

Casio fx-9860GII

```
Binomial P.D
Data      :Variable
X         :3
Numtrial :7
P         :0.16666666
Save Res :None
Execute
|CALC
```

```
Binomial P.D
P=0.07814286
```

```
7C3 * (1/6)^3 * (5/6)^(7-3)
0.07814286123
```

□

**x! nPr nCr RAND** ▶

```
Binomial C.D
Data      :Variable
X         :3
Numtrial :7
P         :0.16666666
Save Res :None
Execute
|CALC
```

```
Binomial C.D
P=0.98236739
```

▶ Continued on next page

$$\sum_{R=0}^3 \left( 7CR \times \left( \frac{1}{6} \right)^R \left( \frac{5}{6} \right)^{7-R} \right)$$

0.9823673983

□

**x! nPr nCr RAND**

**√ ▸**