

Chapter 14 / **Example 14**

Calculating with the inverse normal function

Given that $X \sim N(15, 3^2)$, find the value of x for which $P(X < x) = 0.75$.

Press **2nd** **vars** (**[distr]**) 3:invNorm(

Enter the Area 0.75.

Set μ to 15 and σ to 3.

Navigate to Paste and press **enter**.

```
invNorm
area:0.75
μ:15
σ:3
Paste
```

Press **enter**.

$x = 17.0$

```
invNorm(0.75,15,3)
17.02346925
```