We will create an eActivity containing a NumSolve strip which can be used to calculate any of the parameters involved in a normal probability question.

Start a new eActivity and tap **Insert, Strip(2), NumSolve**.

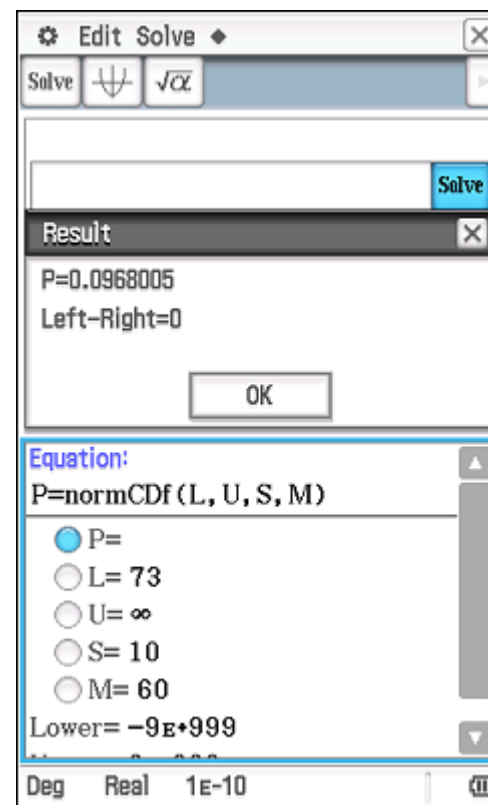Enter the equation shown, using the catalog or abc keyboard.

Working with the normCDF function in this way allows the user to solve for any of the 5 variables involved.
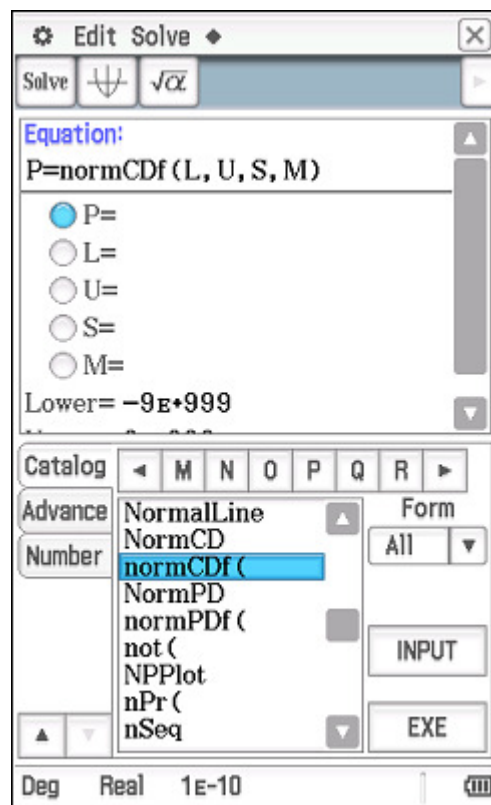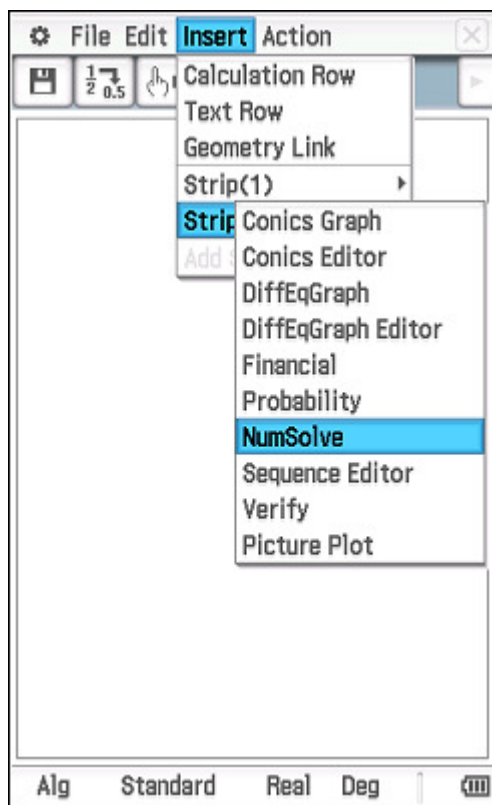
Example 1. If $X \sim N(60, 10^2)$ determine $P(X > 73)$.

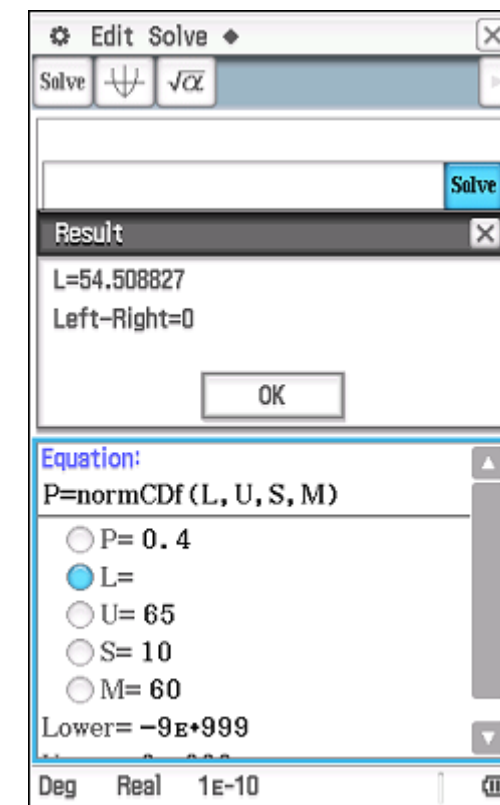Enter the required parameters and select the button next to **P**.

Tap **solve**.

Example 2. If $X \sim N(60, 10^2)$ and $P(a < X < 65) = 0.4$, find a.

Enter the required parameters and select the button next to **L**.

Tap **solve**.

Example 3. If $X \sim N(m, 10^2)$ and
$P(X < 60) = 0.6$, find m.

Enter the required parameters, select the button next to **M** and tap **solve**.

(Sometimes entering an estimate such as $M = 50$ is useful before trying to solve)

An optional step is to add strip help.

Select the NumSolve strip and tap **Insert, AddStrip Help**.

Some suggested text is shown.

Close the strip, enter a suitable title for it and save the eActivity.