

Feb 19-8:47 AM



Nov 21-7:32 AM

has uniform Prob. dist with the maximum wait time of 12 minutes.


1) $P($ Your wait time exceeds 10 minutes)

$$
P(x>10)=(12-10) \cdot \frac{1}{12}=\frac{2}{12}=\frac{1}{6}
$$

2) find the wait time, round to whole minute, that separates the Hop $10 \%$ from the rest.
$(x-0) \cdot \frac{1}{12}=.9$

then Solve for $x$.
$x-0=12(.9)$
$x=10.8 \quad x=11$
$10 \%$ chance that Your wait time
exceeds 11 minutes.
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Standard Normal Prob, dist:

1) use $Z, P(z=c)=0$
a) Graph is bell-Shape, Symmetric with total area $=1$
2) Mean $=$ Mode $=$ Median
3) $\mu=0, \sigma=1$
$P(a<z<b)$


How to find it:
and VARS normaledf( $L, U, \mu, \sigma$ )
Drawing, labeling, Shading, and full TI command
required.

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Find a $Z$-value round to 3 -decimal places, that
Separates the top $1 \%$ from the rest.


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## Nov 21-8:37 AM

Normal Prob. dist: :

1) use $x, P(x=c)=0$
2) Graph is bell-shape, Symmetric with total Areal.
3) Mean $=$ Mode $=$ Median
4) $\mu \& \sigma$ are given in the problem.
$P(a<x<b)$
How to find it:
normalcdf $(L, U, \mu, \sigma)$



Nov 21-9:09 AM
find $x$ value, Round to a whole number, that Separates the top 5$\rangle$. from the rest. $x=$ invNorm (Left Area, $\mu, \sigma$ )
$x=\operatorname{invNorm}(.95,74,6)$


$$
\begin{array}{ll}
=83.869 & \begin{array}{c}
\mu=74 \\
\\
\approx 8=6
\end{array} \\
\approx 4 &
\end{array}
$$



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Nov 21-9:35 AM


