2. Mean 45 minutes
   Standard deviation 8 minutes
   $P(43 < x < 46)$

$P(x > 43)$ and $P(x < 46)$

$P(x > 43)$	$= -0.25$
$\dfrac{43 - 45}{8}$	from the table
	$= 0.40129$
$= \dfrac{-2}{8}$	

When $P(x < 46)$

$\dfrac{46 - 45}{8}$	$= 0.13$
	from the table
$\dfrac{1}{8}$	0.4483

Subtract the upper limit by lower limit

$$0.4483 - 0.40129$$
$$= 0.04701$$