Some answers to some chapter 6 & web problems:

The area under the standard normal pdf with	is about
x between 0 and 0.85	0.3023
x between 0 and 2.17	0.4850
x between 1 and 2	0.1359
x between -1.5 and +1.5	0.8664
x between -1.2 and +1.7	0.8404
x below 0.73	0.7673
x below -0.21	0.4168
x above 1.57	0.0582

If W is normally distributed with mean $\mu = 42$ and standard deviation $\sigma = 4$, and $Z = \frac{W-\mu}{\sigma}$, then Z has a standard normal distribution and

The probability	equals	which is
$P\,(42 < W < 46)$	$P\,(0 < Z < 1)$	0.3413
$P(42 < W < 49)$	$P\,(0 < Z < 1.75)$	0.4599
$P(38 < W < 46)$	$P\,(-1 < Z < 1)$	0.6827
$P(W < 45)$	$P\,(Z < 0.75)$	0.7734
$P(43 < W)$	$P\,(0.25 < Z)$	0.4013

Problem 6.62: (a) 0.1271 (b) 0.6406 (c) 0.1414 (d) 0.5877