

Problems

1.
 - a. $z_{.89.6} = 1.21$
 - b. $z_{.61.5} = -0.72$
 - c. 48.8
 - d. 95.2
 - e. 50.25 or less, 93.75 or more
2.
 - a. 21.57%
 - b. 21.57%
 - c. $z = 1.75$; yes
 - d. $z = 1.28$
 - e. 7.53%
 - f. 2.50%
 - g. 99.02%
 - h. 10.03%
3.
 - a. 92.22
 - b. 6.68
 - c. 12
 - d. 73.69
 - e. 40.70
 - f. 8
 - g. 35.77 or less, 71.23 or more
 - h. 21.74 or less, 85.26 or more
4.
 - a. 9
 - b. .1949
 - c. 62
 - d. 15.28% (*Note: 47.6 is as deviant from 78.8 as is 110.*)
 - e. 36.09 or less, 121.51 or more
5.
 - a. 79.02 mph
 - b. 637.87 or 638 automobiles
 - c. 5.82%
 - d. 83.89%
 - e. 435.4 or 435 automobiles
 - f. 51.99 mph or less, 82.61 mph or more