ch 6.2 review worksheet

Find the critical value z_c that corresponds to a 90% confidence level.

c= confidence interval

- 2.) Find the critical value z_c that corresponds to a 98% confidence level.
- 3.) Find the critical value z_c that corresponds to a 94% confidence level.
- A random sample of 50 students has a test score with a standard deviation of 10.2. Find the maximum error of estimate if c = 0.90.
- A random sample of 40 students has a mean annual earnings of \$3120 and a standard deviation of \$677. Find
 the maximum error of estimate if c = 0.95.
- A random sample of 40 students has a test score with \bar{x} = 81.5 and s = 10.2. Construct the confidence interval 6. for the population mean, μ if c = 0.90.
- A random sample of 40 students has a mean annual earnings of \$3120 and a standard deviation of \$677. Construct the confidence interval for the population mean, μ if c = 0.95.
- 8. A random sample of 56 fluorescent light bulbs has a mean life of 645 hours with a standard deviation of 31 hours. Construct a 95% confidence interval for the population mean.

Find the \bar{x} and \bar{E} for the following confidence inerval:

- 9. $34.2 < \mu < 50.2$
- 10. $8.10 < \mu < 11.30$

Use data set 7 on page 788 to create the following confidence intervals.

- 11. Create a 99% confidence interval for the age of the bears.
- 12. Create a 90% confidence interval for the weight of the bears.
- 13. Create a 95% confidence interval for the length of the bears.