Name_____

Assignment Normal Distribution

Date_____

1) The scores on a test administered to prospective employees are normally distributed with amean of 100 and a standard deviation of 15 (use this infornation for 1-6). About what percent of the scores are between 70 and 130?

2) About what percent of the scores are between 85 and 130?

3) About what percent of the scores are over 115?

4) About what percent of the scores are lower than 85 or higher than 115?

5) If 80 people take the test, how many would you expect to score higher than 130?

6) If 75 people take the test, how many would you expect to score lower than 85?

7) The daily July surface temperature of a lake at a resort has a mean of 82° and a standard deviation of 4.28. If you prefer to swim when the temperature is at least 77.8°, about what percent of the days does the temperature meet your preference?

8) A set of data has a normal distribution with a mean of 5.1 and a standard deviation of 0.9. Find the percent of data within each interval (use for 8-10). What percent from 4.2 to 5.1?

9) What percent from 6.0 to 6.9

10) What percent greater than 6.9?

Answers to HW 28: Normal Distribution

1) 95%

2) 81.5%

3) 16%

4) 32%

5) 2

6) 12

7) 84%

8) 34%

9) 13.5%

10) 2.5%