Ch 26 Exit Slip #3 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_

1. A continuous random variable T follows a normal distribution with mean 13.2 and standard deviation 1.5.
2. Find the value of .
3. Find the value of t if 
4. In a factory producing glasses, the weights of glasses are known to have a mean of 160 grams. It is also known that the interquartile range of the weights of glasses is 28 grams. Assuming the weights of glasses to be normally distributed, find the standard deviation of the weights of glasses.

1. The weights, in kg, of male birds of a certain species are modelled by a normal distribution with mean, , and standard deviation, .

Given that 70% of the birds weigh more than 2.1 kg and 25% of the birds weigh more than 2.5 kg, calculate the values of mean and standard deviation.