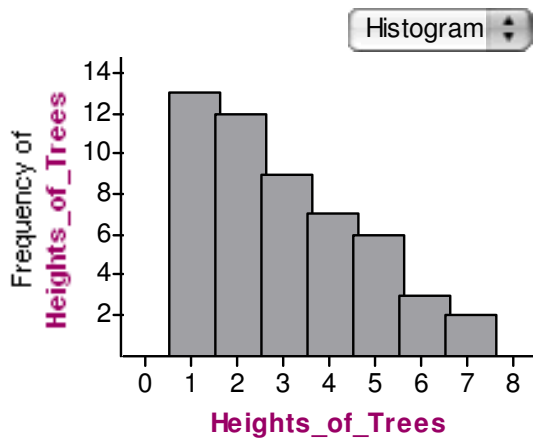
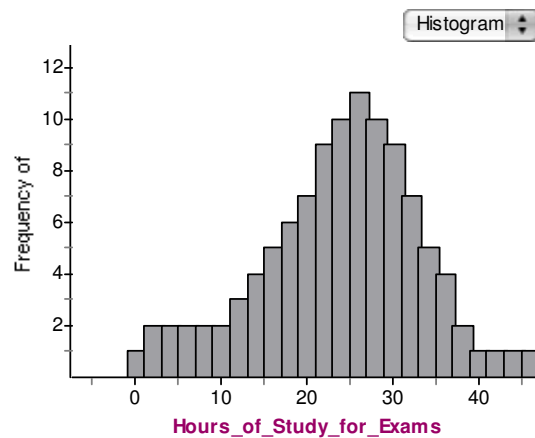


1. Name the following distributions.

a.



b.



2. Sally is 164 cm tall. In her school, the girls heights are normally distributed with a mean of 168cm and a standard deviation of 4cm.
 - a. What is the probability that Sally's friend Joanne is taller than she is?
 - b. What is the probability that Joanne is between 164cm and 172cm tall?
3. The daily sales of Gary's chip truck has a mean of \$675.00 and a standard deviation of \$35.50.
 - a. What percent of time will the daily sales be greater than \$639.50?
 - b. What percent of time will the daily sales be less than \$746.00?
4. The mean household income in Kingston is \$45000 with a standard deviation of \$15000. Household incomes below \$30000 will receive a tax credit, household incomes between \$30000 and \$75000 will have to pay a 2% tax, and household incomes over \$75000 will have to pay a 5% tax.
 - a. What percentage of households will have to pay a 2% tax
 - b. What percentage of households will not have to pay tax
 - c. What percentage of households will pay tax.
5. An elite university only accepts the top 2.5% of students within the province to attend their university. Last year the student's average marks were normally distributed with a mean of 75% and a standard deviation of 7.5%. What average is needed in order to attend this university?