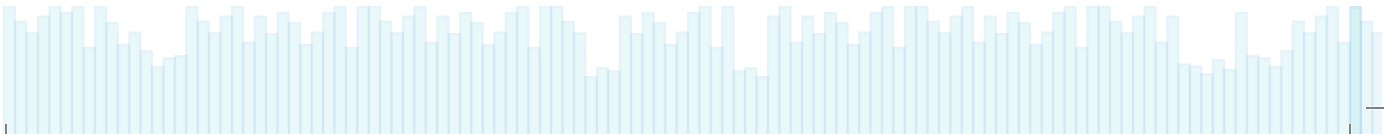
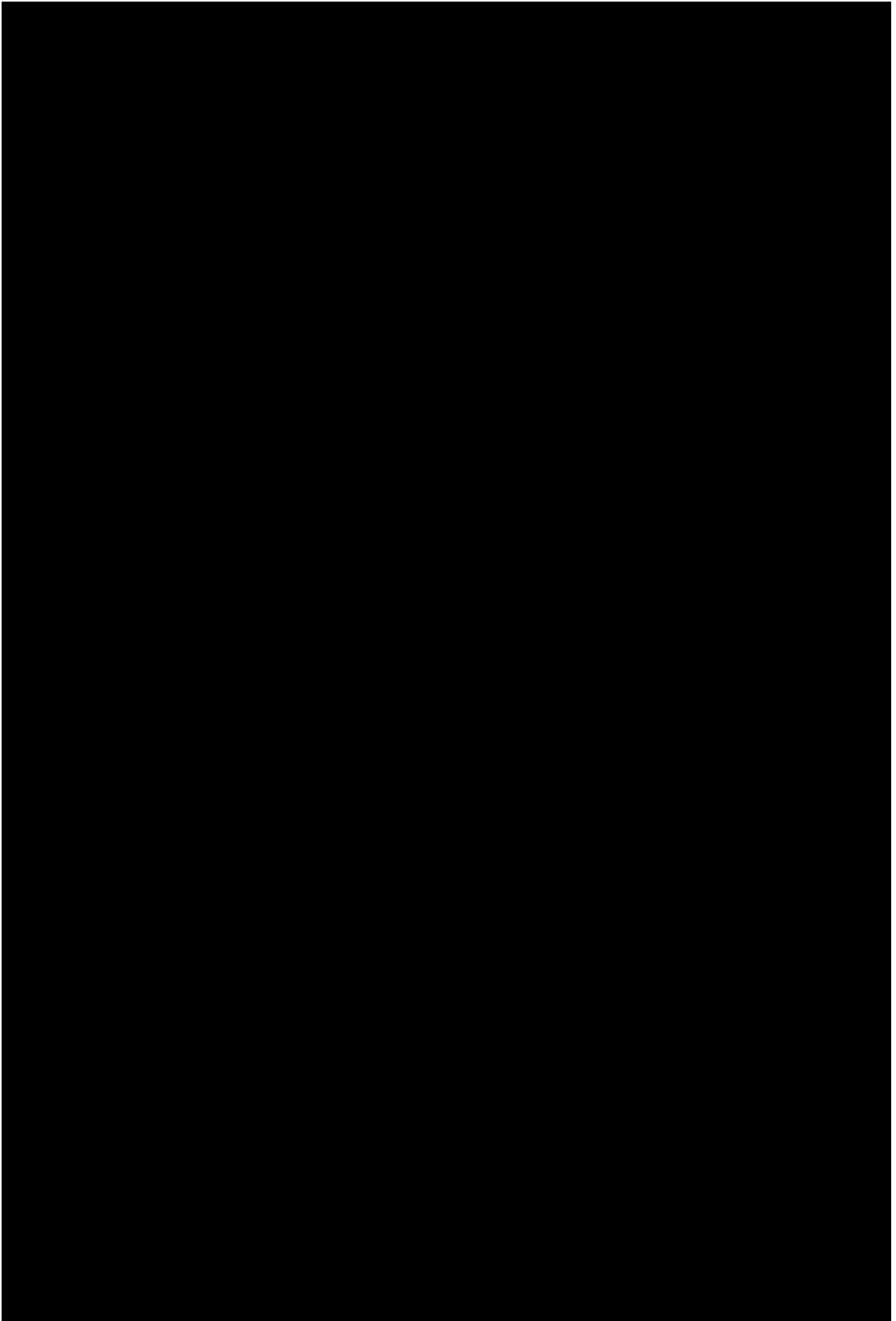
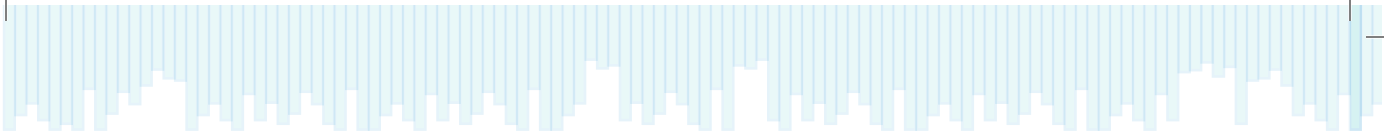


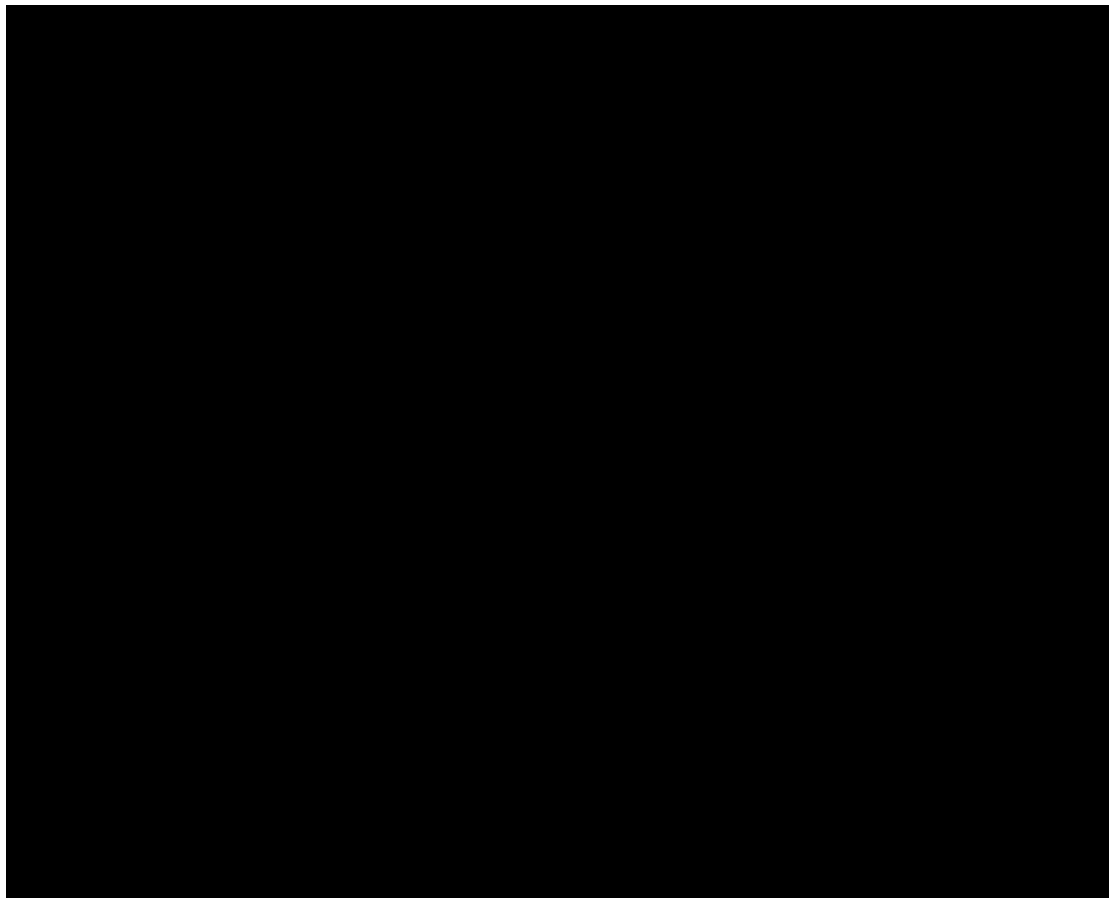
Summative Assessment

Answer each question by choosing the letter of the correct answer.

1. Which of the following distributions is continuous?
 - a. normal distribution
 - b. Poisson distribution
 - c. binomial distribution
 - d. hypergeometric distribution

2. Which is true about a normal distribution?
 - a. The mean, the median, and the mode are all equal.
 - b. The graph of the normal distribution curve is skewed to the left.
 - c. The total area under the normal distribution curve is less than 1.
 - d. The standard normal distribution has a mean of 1 and a standard deviation of 0.





For 17 and 18, refer to the situation below.

The amount of coffee dispensed in a coffee dispensing machine is normally distributed with a mean of 190 milliliters (mL) and a standard deviation of 10 mL.

17. What proportion of the coffee dispensed will be less than 185 mL?
- | | |
|--------|--------|
| a. 31% | c. 50% |
| b. 45% | d. 69% |
18. What proportion of coffee dispensed will be over 200 mL?
- | | |
|--------|---------|
| a. 16% | c. 84% |
| b. 25% | d. 100% |

