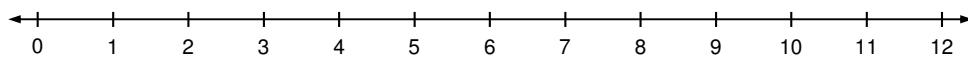


3. Find the median for each sample.
Sample of 5: *Sample of 15:* *Sample of 30:*
4. Find the mode for each sample.
Sample of 5: *Sample of 15:* *Sample of 30:*
5. Find the range for each sample.
Sample of 5: *Sample of 15:* *Sample of 30:*
6. Mr. Ohashi accumulated the mean data from the entire class. He made a line plot for the means for each sample size, and put them up on the overhead.
- Compare the three distributions. How are they similar? How are they different?
 - The mean number of movies watched for the entire population of 100 students is about 4.22. Describe how well the mean of the different-sized samples predict the mean for the entire population.
 - Suppose each student in your class chose a sample of 50 students and found the mean. What would you expect the class line plot to look like? Explain.
 - How many students do you think are needed in a sample to get an accurate result? Explain.
7. Find the five-number summary for each of your samples, then make a box-and-whisker plot. Put them all over the same number line so that they are easy to compare.



Choosing a Sample Size: Homework

8. Tia surveyed all of the students in her math class. She wanted to know how many kids at her school can play guitar.
- What population is being studied?
 - Identify the sampling method and explain how you know.
 - Suppose 24 out of 30 of the students surveyed can play guitar. If there are 900 students in the school, about how many would you predict can play guitar? Show your work.
9. Tamara wanted to know how many eighth graders own an iPod. She wrote each eighth grader's name on a slip of paper. She pulled 30 names out of a container without looking, then surveyed those 30 students.
- What population is being studied?
 - Identify the sampling method and explain how you know.
 - Suppose 19 out of 30 of the students surveyed own an iPod. If there are 270 eighth graders in the school, about how many would you predict own an iPod? Show your work.

10. Answer ACE #27 on p.41. Be sure to answer all parts of each question!

27. a. Fraction:

How many:

b. Fraction:

How many:

c.

d.