

Guided Practice

Patrons in the children's section of a local branch library were randomly selected and asked their ages. The librarian wants to use the data to infer the ages of all patrons of the children's section so he can select age appropriate activities. (Explore Activity 1 and 2)

7, 4, 7, 5, 4, 10, 11, 6, 7, 4

1. Make a dot plot of the sample population data.



2. Make a box plot of the sample population data.



3. The most common age of children that use the library is _____ and _____.
4. The range of ages of children that use the library is from _____ to _____.
5. The median age of children that use the library is _____.
6. A manufacturer fills an order for 4,200 smart phones. The quality inspector selects a random sample of 60 phones and finds that 4 are defective. How many smart phones in the order are likely to be defective? (Example 1)
About _____ smart phones in the order are likely to be defective.
7. Part of the population of 4,500 elk at a wildlife preserve is infected with a parasite. A random sample of 50 elk shows that 8 of them are infected. How many elk are likely to be infected? (Example 1)



ESSENTIAL QUESTION CHECK-IN

8. How can you use a random sample of a population to make predictions?
