Each boldface number in Exercises 5.28-5.30 & 5.47-5.48 is the value of either a parameter or a statistic. In each case, state which it is. Identify the population and/or the parameter in each scenario as well.

5.28: **Drink Arizona** On Tuesday, the bottles of Arizona iced tea filled in a plant were supposed to contain an average of 20 ounces of iced tea. Quality control inspectors sampled 50 bottles at random from the day's production. These bottles contained an average of 19.6 ounces of iced tea.

Population: Sample(s):
Parameter: Statistics(s):

5.29: **Flight Safety** On a New York-to-Denver flight, 8% of the 125 passengers were selected for random security screening prior to boarding. According to the Transportation Security Administration, 10% of airline passengers are chosen for random screening.

Population: Sample(s):
Parameter: Statistics(s):

5.30: **Sleeping Ducks, I** A recent report in the journal *Nature* examined whether ducks keep an eye out for predators while they sleep. The researchers, from Indiana State University, put four ducks in each of four plastic boxes, which were arranged in a row. Ducks in the two end boxes slept with one eye open 31.8% of the time, compared with only 12.4% of the time for the ducks in the two center boxes.

Population: Sample(s):
Parameter: Statistics(s):

5.47: **Lefties** According to “Real Facts” at Snapple.com, 13% of adults are left-handed. At a math teacher’s conference, 16% of those attending were left-handed.

Population: Sample(s):
Parameter: Statistics(s):

5.48: **Single-sex classes** In an experiment to test the effectiveness of single-sex classrooms, girls assigned at random to a coeducational chemistry class gained an average of 12.2 points from a pretest to a posttest. Girls assigned randomly to a single-sex chemistry class taught by the same teacher gained 15.1 points.

Population: Sample(s):
Parameter: Statistics(s):