Biased Vs. Unbiased Samples: Homework # \_\_\_\_\_\_\_\_\_

**For each scenario below, determine if the method of sampling was biased or unbiased, and therefore whether the conclusion made is valid. Explain.**

1. To evaluate customer satisfaction, a grocery store gives double coupons to anyone who completes a survey as they enter the store. The store manager determines that customers are very satisfied with their shopping experience in his store.

2. To evaluate the integrity of underground water lines, the department of public works randomly selects 20 sites in the city to unearth and observe the water lines. At 5 of the sites, the water lines needed repair. The department of public works concludes that about one-fourth of underground water lines throughout the city need repair.

3. To award prizes at a hockey game, four tickets with individual seat

numbers printed on them are picked from a barrel. Since Elvio’s

section was not selected for any of the four prizes, he assumes that

they forgot to include the entire section in the drawing.

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