According to Gallup, many Americans are distrusting of media reports. In the summer of 2022, Gallup asked a random sample of 1,015 American adults (age 18 and over) about their perceptions about news reporting (TV, newspapers, radio). One aspect of the survey asks respondents about their trust in mass media to report the news “fully, accurately, and fairly.” Respondents could choose “a great deal,” “a fair amount,” “not very much,” or “none at all.” We will focus on the “very little” category for this example.

What is the population that Gallup is trying to learn about? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the sample in this situation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is the categorical variable in this situation? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gallup reported that:

* 49% of survey respondents said they have “very little” trust in TV news media

Is this quantity a statistic or parameter? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Based on this statistic, what is the parameter that Gallup can learn about?

What is their estimate of that parameter?

If they were to take another sample of 1,015 adults, would they necessarily get the same estimate?

Construct a 95% confidence interval for the proportion of all American adults have very little trust in TV news media

Provide an interpretation (in context) for the resulting interval.