Parameters vs Statistics

*For each question mark TRUE or FALSE, and write a justification for your answer*

1. In a study of all 2857 employees at a college, it is found that 45% own a vehicle.

TRUE OR FALSE: The number 45% is a parameter.

1. In a survey, one hundred college students are asked how many hours per week they spend on the Internet.

TRUE OR FALSE: The parameter of interest is a proportion.

1. In a survey, smart phone users are asked how many times they used a web-based taxi service over the last year.

TRUE OR FALSE: The parameter of interest is a proportion.

1. In a survey, one hundred college students are asked whether or not they cited information from Wikipedia in their papers.

TRUE OR FALSE: The parameter of interest is a proportion.

1. Suppose you want to estimate the percentage of videos on YouTube that are cat videos. It is impossible for you to watch all videos on YouTube so you use a random video picker to select 1000 videos for you. You find that 2% of these videos are cat videos.

TRUE OR FALSE: A video in your sample is a sample statistic.