

I. Determine the margin of error (MOE) to the nearest percent. Must show your work!!

1.) $p = 26\%$, $n = 100$ 8.8%	2.) $p = 49\%$, $n = 1500$ 2.6%	3.) $p = 96\%$, $n = 1000$ 1.2%	4.) $p = 75\%$, $n = 500$ 3.9%
--	---	---	--

II. Complete each problem. Must show your work!!

5.) A poll asked people to name the most serious problem facing the country. Forty-six percent of the 800 randomly selected people said "crime". What is the margin of error? 3.5%	6.) According to a poll of teenagers, 43% said that they use a personal computer at home. If the margin of error is 4%, how many teenagers were polled? 612 people
7.) One hundred people were asked a yes-or-no question in an opinion poll. How many said "yes" if the margin of error was 9.6%? 36% or 64% said yes	8.) Three-hundred sixty-seven of the 425 high school students said pizza was the favorite food in the school cafeteria. What is the margin of error? 3.4%
9.) A study by the University of Illinois in 1995 showed an increase in productivity by 10% of the employees who wore headsets and listened to music of their choice while they were working. The margin of error for the study was about 7%. How many employees participated in the study? 73 people	10.) In a poll conducted by ABC news, 1,020 people surveyed and asked if they supported raising the minimum wage. How many people said they support minimum wage if the ME = 2.4%? 18% or 82% supported min wage
11.) According to a Gallup Poll, 33% of shoppers planned to spend \$1000 or more during a recent holiday season. The margin of error was 3%. How many people were surveyed? 982 people	12.) In a recent Harris poll, 1,010 people were surveyed said they considered being a physician to be a very prestigious occupation. How many people said that the a physician was prestigious if the margin of error is 3.1%? 41% or 59% said prestigious occupation