MATH 140		Date:
	: Parameters of Interest	:
research scen	: In this activity we identify parameters of in narios.	interest and statistics computed in several
1. A resea	1. A researcher wants to test whether workers in the Willamette Valley commute less than 2 minutes, on average. To test the claim, she gathers a simple random sample of 100 Willamett Valley residents and find the average commute time for the sample is 18.4 minutes.	
(a) St	tate the population of interest.	
(b) St	tate the parameter of interest.	
(c) St	tate the size of the sample.	
(d) St	tate the point estimate for the parameter of	interest generated by the sample.
To inve	resident wonders whether Linfield students s vestigate a crack team of student statisticia d students. They find that the sample mean	ans gathers an independent sample of 45
(a) St	tate the population of interest.	
(b) St	tate the parameter of interest.	
(c) St	tate the size of the sample.	
(d) St	tate the point estimate for the parameter of	interest generated by the sample.
all regu	is the average margin of victory in Major Lea ular season MLB games played since 1950, a 00 games and finds the average margin of vic	researcher gathers an independent sample
(a) St	tate the population of interest.	
(b) St	tate the parameter of interest.	

	(c) State the size of the sample.	
	(d) State the point estimate for the parameter of interest generated by the sample.	
4.	What proportion of car owners in Oregon have a car that is either all electric or hybrid? investigate, Samwise Gamgee looks at a sample of 200 Oregon car owners and finds 23 them own such a vehicle.	
	(a) State the population of interest.	
	(b) State the parameter of interest.	
	(c) State the size of the sample.	
	(d) State the point estimate for the parameter of interest generated by the sample.	
5. In a survey of 500 Oregonians, $48\%$ of the respondents reported that they have seen untru or doubtful information on the internet in the last three months.		
	(a) is 48% a parameter or a statistic? Hint: Is 48% derived from a sample, or is it a value representing an entire population?	
	(b) If you answered that 48% is a statistic, then it is a point estimate for a parameter describing an entire population. What is the underlying parameter, and what is the population of interest? If you answered that 48% is a parameter, rethink that answer and repeat (b):)	