Name:	Hour:	Date:	

How much of the Earth is covered by water?







What proportion of the Earth is covered by water? We will investigate this question by taking a random sample of locations on the globe.

1.	How many locations did your class sample? How many locations were water?							
2.	Calculate the proportion of locations from your sample that are water. $\hat{p} = $							
3.	Construct a 95% confidence interval to estimate the proportion of the Earth that is water.							
	STATE: State the parameter you want to estimate and the confidence level.							
	Parameter: Confidence level:							
	PLAN: Identify the appropriate inference method and check conditions.							
	Name of procedure:							
	Check conditions:							
	DO: If the conditions are met, perform the calculations.							
	General Formula for any confidence interval:							
	Specific Formula for this confidence interval:							
	Plug numbers into the formula:							
	Answer:							
	CONCLUDE: Interpret your interval in the context of the problem.							
	Interpret:							



١	Name: _						_ Hour: _		Date:	
		Estima	ating a F	Populat	ion Pro	oportic	n: The	4-8	Step Process	
Imp	ortant ic	deas:								
upcon their p must t are ch	ning elec betition v be valid. necked.	ction. To r vith 24,598 It is too ti The individ	oup in Aust nake it on t 3 signature me consun	he ballot, s. To pass ning to cho ng the sig	wanted a 20,000 v s the valideck all of anatures in	a particularidalid signal dity test 2 the signal needs to	ar issue to atures we 20,000/24 atures, so be 95% c	o be p re ne ,598 o a rai	placed on the ballot of eded. The group turn = 81.3% of the signat ndom sample of signa ent that the true propo	ed in ures itures
	· ·		ative estima					eded	?	
2.	guess	for \hat{p} , find	the sample	size nee	ded for a	margin o	of error of	at m	alid. Using this value a ost 2 percentage poin le size from Question	ts
3.	this red		aller or lar						95% confidence? Wou e remains the same?	ld

