AP Statistics

What do Statisticians really do?

•	They try and find answers to really important questions, such as: "S	Should Mom buy name brand or
	store brand cereal. Which do kids prefer?"	

•	In the front of the room there are two brands of cereal, marked A and B. If you have not done so
	please sample each cereal. Mentally make note of which one you like better. You have to pick one,
	you can't say they both are terrible.

yc	ou ca	n't s	ay th	ey bot	th are t	terribl	e.											
The store a class of								-								is tru	e out	of
Suppose students						-	refer t	the na	me br	and ce	real. I	s there	e <u>conv</u>	incing	<u>a</u> evid	ence	that	
What are				ons tha	at the I	numbe	er obt	ained	is high	er tha	n 15?	(the e	expect	ed va	lue if	there	e is no)
How can	we s	imul	ate th	nirty st	tudent	s choo	osing (cereal	by flip	pping a	a coin,	if taste	e is rea	ally th	e sam	ne?		
Perform t cereal. Ea picked.						•							•	_				as
How mar	y tim	nes c	did yo	u hav	e the r	name k	orand	cerea	l chose	en by t	he coi	n?						
Graph th	e clas	ss da	ata or	the c	lot plo	t belo	w.											
6 7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Now answer the same question. If a class of 30 has 18 students pick the name brand cereal is there convincing evidence that students prefer the name brand? Explain.																		

Preference			
Cereal A	-		
Cereal B	-		

Is there convincing evidence that OUR class prefers name brand more than store brand? (Be careful. Can you use the above dot plot?)

Write a short paragraph explanation.

Real cereal taste test