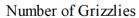
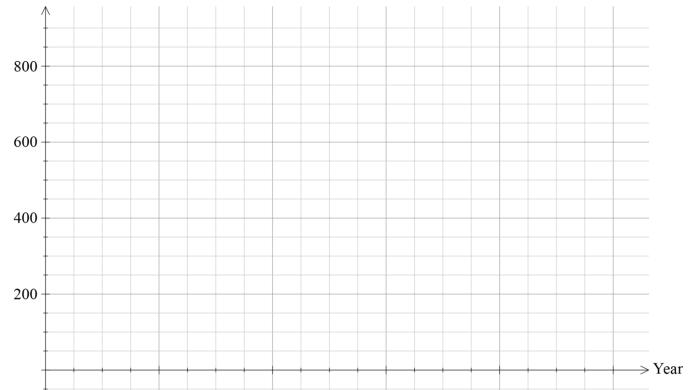
Biology 2201 Investigation 2.D Grizzly Bear Population Gillam Holy Heart Name:

Statistics show that over 80 percent of all bear deaths are related to human activities. Fragmentation of their habitat due to the building and use of new roads or industrial or recreational facilities is detrimental to their population. Like other large mammals, grizzly bears do not adapt well to major changes in their environment.

Using the data in the table, draw a graph that shows the change in size of the Alberta grizzly bear population outside the National Parks over time.

Number of Grizzly Bears in Alberta, Outside the National Parks		
Year	Population Size	
1988	575	
1989	536	
1990	547	
1991	638	
1992	669	
1993	686	
1994	700	
1995	735	
1996	765	
1997	776	
1998	807	
1999	833	
2000	841	





	_		to try and protect the pop	_
anyone to go hunt grizzly How can you tell?	bears wheneve	r they want. Wh	at year do you think that the	his regulation was introduced?
How can you tell?				
				·
pulation counts were made in		anagement regi	ons around the province. S	Some of the data are in the ta
ow shown in the second table	·			
	Grizzly	Bear Populatio	n Sizes in Alberta	
	Region	Area (km²)	Bear Population	
	A	14128	31	
	В	6089	44	
	С	22840	168	
2.) Calculate the number of g	grizzly bears per	1000 km <sup>2</sup> for ea	ach region.	
		_		
Grizzly Bear Population p	er 1000 km² =	$\frac{\text{# of Bears}}{X}$	1000	
,		Area		
A		В		C
A		В		С
А		В		С
A		В		С
A		В		С
A		В		С
A		В		C
A		В		С
A		В		C
A		В		C
A		В		C
A  3.) Compare the densities for	r the three regio		think that there is a differe	
	r the three regio		think that there is a differen	
	r the three regio		think that there is a differen	
	r the three regio		think that there is a differen	
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	r the three regio		think that there is a difference	

Over →

	pulation?
,	
,	nere grizzly bears are known to forage for food. Do you think that lowering the speed limit along this stretch
,	nere grizzly bears are known to forage for food. Do you think that lowering the speed limit along this stretch
,	ere is a road sign on the highway that asks drivers to reduce their speed from 90 to 70 km/h along a 15 km so here grizzly bears are known to forage for food. Do you think that lowering the speed limit along this stretch ghway is a reasonable action? Why or why not?
,	nere grizzly bears are known to forage for food. Do you think that lowering the speed limit along this stretch
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6.) Would the installation of underpasses along this stretch of highway be a better alternative? Compare the advantages and disadvantages of each option.

Advantages	Disadvantages