PROBLEM SET 1-1: Tables and Graphs

"Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write." -H.G. Wells (Don't know who that is? Look it up!)

1. Visit New York City Independent Budget Office's site: New York By The Numbers: http://ibo.nyc.ny.us/cgi-park2/

Find one graph/dataset from NYC BTN particularly interesting to you to present to the group – use the archive links on the top right as well – endeavor to pick one you think no one else will.

The following table shows data on arrests made in NYC for 1 year according to NYPD figures:

New York City Arrests Preliminary data as of 12/17/2013

													% Change From	Current	Current	% Change From Month	NOTE:		
SA Elian	. Dec 12,	Jan 13-	Feb 13	Mar 13	Apr 13	May 13	Jun 13	Jul 13	Aug 13 . Sep 13	Oct 13 -	Nov-13	Previous 1 Month	Month _ 2012	Month 2013	In Previous Year		2013	1	
Felony Arrests within NYC	NOMES OF STREET STREET,	edje akteolosao kao antao a		CERCIONIST PRODUCTION NO.	ATTACK STREET,		PH SOCIOCISCO CONTROL CONTROL	editory resources of trans-				gjobgen er oanellegegerene		osdriftomensieses520mre		- N. J.	enneralenzen armana F	DECEMBER OF STREET	
VFO Drug VTL	1,966 1,242 113	2,373 1,856 155	2,065 1,593 146	2,134 1,713 165	2,165 1,723 171	2,445 1,793 154	2,271 1,584 143	2,373 1,642 135	2,342 1,681 145	2,097 1,396 152	2,321 1,649 168	2,018 1,597 169	-13.1% -3.2% -0.6%	1,919 3,026 92	2,018 1,597 169	5.2% 55.7% 83.7%	25,181 18,436 1,342	24,604 18,227 1,703	1
Other	2,855	3,507	3,313	3,530	3,746	3,808	3,385	3,790	3,621	3,313	3,762	3,393	-9.8%	2,568	3,393	32.1%	36,837	39,168	4
Total Felony	6,176	7,891	7,117	7,542	7,805	8,200	7,383	7,940	7,789	6,958	7,900	7,177	-9.2%	\$,605	7,177	28.0%	81,796	83,702	1
Misdemeanor Arrests within NYC																			
DOCKER BY MARK PAIL	721	765	717	840	992	890	702	724	848	769	792	863	9.0%	524	863	64.7%	7,901	8,902	
Drug Other	4,471	5,454 13,465	4,808 12,837	5,100 13,926	5,183 13,892	5,579 14,316	4,661 12,977	4,761	5,001 13,512	4,344 12,476	4,924 13,293	4,637 12,364	-5.8% -7.0%	3,364	4,637 12,364	37.8% 22.3%	66,316 146,096	54,452 146,467	
Total Misdemeanor	16,505	19,684	18,362	19,866	20,067	20,785	18,340	18,894	19,361	17,589	19,009	17,864	-6.0%	13,995	17,864	27.6%	220,313	209,821	4
Total Arrest	22,681	27,575	25,479	27,408	27,872	28,985	+ 25,723	26,834	27,150	24,547	26,909	25,041	-6.9%	19,600	25,041	27.8%	302,109	293,523	*

Source: http://www.criminaljustice.ny.gov/crimnet/ojsa/greenbook.pdf 1/20/14

How many total arrests were made in NYC from Dec 2012 to Nov 2013?

What percentage of the total crimes were felonies?

89878/316204 = 2800

What percentage of the July misdemeanor arrests were drug related? \sim 25%

Write a complete sentence that fully describes where the number 5.2% (found in the VFO row) came from and what it means.

Do you see any patterns in arrests over the course of a calendar year? Describe.

7. How was 2013 compared to 2012? - write a brief summary with supporting evidence you could give to a news agency. Compare more than just total arrests. Overall arrests are down ~ 2.8%, but strayothanted home crims ontable of spiritin callyons listed leday and 1, p