## Hw 1 Problems - Chapter 1

of les

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1.1) There are 9 variables

1.2) There are 11 people

1. 4 a) Numerical because the variables can scale numerically

1.4b) Categorical, because the variables are descriptions

1.12 a) unstructed

(.16c)

1.126)	Students Ages	Time strong
	20	Noon
	20	Noon
	21	boon
	18	Noon
	24	Noon .
	50	Spm
	47	5 PM
	46	5 pm
	34	5 PM
	S. C.	5pm

student age		Noon
2 20		1
	20	1
ř	21	1
	18	1
	24	1
0	50	0
	47	0
, 1	4%	0
	34	0
7	31	.0
		ı

1.16 a)		Men	Women	Total	
in (o a)	Work	15	65	80	
	MOLK.	23	28	51	
		38	93	,131	

1. (66) 15/38 \* 100 = 39.47/, of men worked

100%- 39,47% = 60,52%, of men don't worked

(, 16 d) 65/93 \$ 100 = 69.89 %, of women worked

1. (6 e) 80 / 131 \* 100 = 61.06% of people worked

1. (6 f) 65 / 80 \$ 100 = 81,25% of people who worked were female

1. (6 g) 100% - 81.25 = 18.75), of people who worked were male

1.16h) 800 x.6989 = 859 women would work in sample of

- 1.24) 12608000 7.0.055 = 229236363.6 Was population size back in 2007 [of the age group]
- 1.34) Controlled , because when they chose patients with a behavers, the researchers transles fundomthly selected & made patients take the drug, rather than of the patients own will.
- 1.36) Observational because the researcher in this case (principal) didn't force a group to wear miforms, so the subjects did so according to their own will.

Hw 1 Problems - Ch 2

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Section 1A

2.2a) 21 people have unhealthy cholesterol

2.26) 21/93 \*100= 22.58%

This percentage is higher than the 18% of people in 2010

2.60 18 hours 3 19 hours

2.66) 8 people excerased less than 2 hrs

2.6c) 5 people excercised 10 or more hours

2.6d) 5/50 is the proportion

2.8a) Detroit was the lowest

2.86) Seattle has greatest spread

2.80) The skew is to the left in Sentfle

2.16a) For women, the shape is bimodal 3 pretty symmetric While for men, the shape is bimodal, but skewed to the left

2.16 b) The women group tends to spind more

2.16 c) The women chard that more spread

2.18a) The shape is unimodal with a skew to the right

2.186) Typical number of siblings is 200 5

2, 1801 Roughly 90 people in this survey have no siblings

2. 18 d) 90/2000 \* 100 = 4.5% have no siblings

2,22 I) A

2.22 II) B

2.22 II) C

2.38d) It's a Parcho chart

<sup>2.38</sup>a) Roughly 7.5 million

<sup>2.38</sup>b) Roughly 5 million

<sup>2,38</sup> c) No, 1+ doesn't

2.48) A pre chart because it compares the data to each other based on percentage relative to one another. Furthermore, the chart is only comparing one group with 3 categories.