

Instructions: Show all work. Use exact answers unless otherwise directed to round.

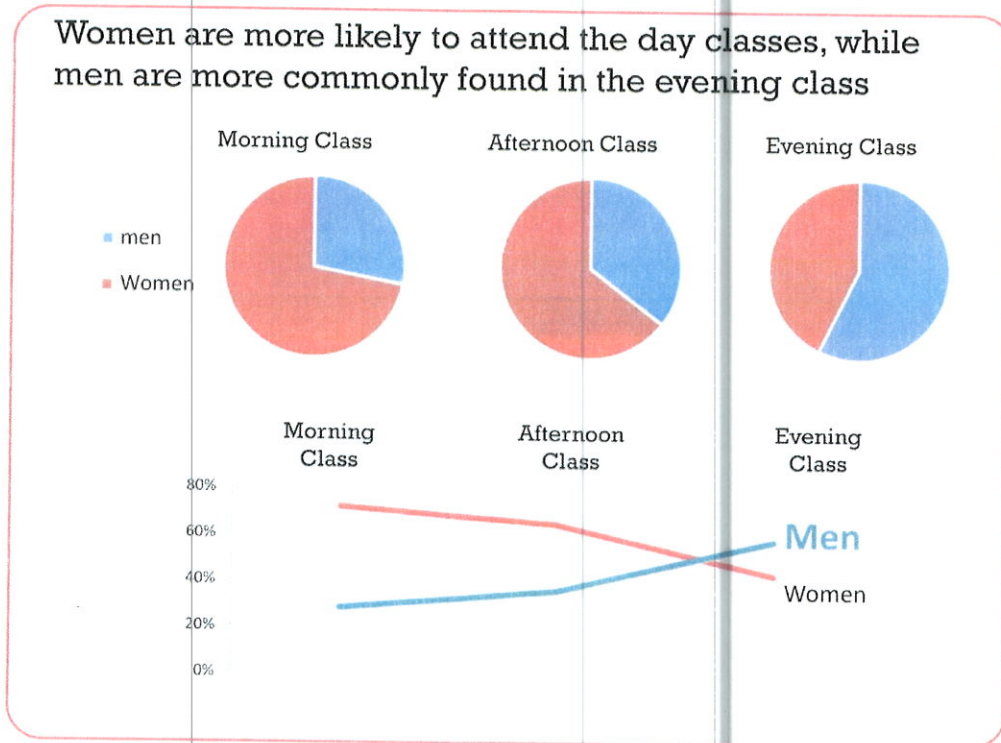
- Identify the most relevant source of bias in this situation: A survey asks the following: Should the death penalty be permitted if innocent people might die?

the questions is leading / wording

- Classify the following variables

Variable	Categorical/Qualitative	Quantitative	
		Discrete	Continuous
# of TV owned		✓	
Company Name	✓		
Strokes in a golf game		✓	
Amount of Tax Paid			✓
Football Jersey #	✓		

- Explain why the graph below is misleading.



the sizes of the classes are likely to be different

4. Below you will find a data set of a company with 18 employees. Find the following statistics for the indicated variable.

a. Find the mean height of employees

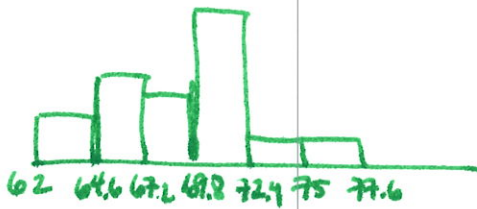
$$\bar{x} = 69.1$$

b. Find the standard deviation of height of employees (hint: use technology!)

$$s_x = 3.52$$

c. Draw a histogram or a boxplot of the height data (your choice)

histogram



box plot



	name	sex	age	height	weight
1	Aubrey	M	41	74	170
2	Ron	M	42	68	166
3	Carl	M	32	70	155
4	Antonio	M	39	72	167
5	Deborah	F	30	66	124
6	Jacqueline	F	33	66	115
7	Heleen	F	26	64	121
8	David	M	30	71	158
9	James	M	53	72	175
10	Michael	M	32	69	143
11	Ruth	F	47	69	139
12	Joel	M	34	72	163
13	Donna	F	23	62	98
14	Roger	M	36	75	160
15	Yao	M	45	70	145
16	Elizabeth	F	31	67	135
17	Tim	M	29	71	176
18	Susan	F	28	65	131

1 VarStats