2.4 Worksheet – Survey Design and BiasMDM4U Jensen

1) For each of the folchecklist question, or	- ·		is an op	en quest	ion, rating	question,	ranking que	estion,
i) Please provide the	following in	formation:						
Gender:	(Grade:						
ii) Please provide the	e following in	nformation						
Gender: □M	\Box F	Grade: □9	□10	□11	□12			
iii) With 1 meaning r textbook.	nost helpful	and 10 meanir	ıg not at	all helpf	ul, rate eac	h of the ch	apters of th	le
Chapter 1		_Chapter 2		Ch	apter 3			
Chapter 4		_ Chapter 5		Ch	apter 6			
iv) Rank the chapter	s of this text	book in order f	rom 1-6	(1 being	most usef	ul).		
Chapter 1		_ Chapter 2		Ch	apter 3			
Chapter 4		_ Chapter 5		Ch	napter 6			
2) Describe the chara	acteristics of	a good questic	on and w	hat good	d questions	must avoi	id.	
3) Using your criteria the question to meet					ollowing su	ırvey ques	tions and re	:-write
a) Should the OMB b	e funded to i	nitiate waste a	udits ac	ross the]	province?			
$\Box Y$	\square N							
b) Given the large an forced to clean up the			is spew	ed out of	smelters,	should mir	ning compar	nies be

c) On a 5-point scale, do you agree with the bleeding-heart Liberals that all corporations should pay

higher taxes? (1: totally agree, 5: totally disagree)

d) Why shouldn't forestry companies clear cut? Please explain.

4) For each of the following questions, state if it is an open question, rating question, ranking question, checklist question, or information question.
a) You are presently in grade (circle the appropriate answer):
9 10 11 12
b) I find mathematics stimulating because:
c) Rank the following foods from favourite (1) to least favourite (4).
pizza hamburgers tacos watermelon
d) Do you wear a wristwatch?
always sometimes seldom never
e) How much do you like math on a scale of 1 to 5 (1 being the lowest)
f) Estimate your net income:
\$15000-\$19999\$20000-\$39999\$40000-\$59999\$60000 +
5) Explain the difference between primary and secondary data.
6) Identify the type(s) of bias that might result from each of the following data collection methods.
 a) You hand out surveys to your classmates to be returned to you next week. b) You are interested in the study habits of grade 12 students, so you interview students from your class. c) You ask students about their recycling habits on behalf of the Greenteam, the school environment club. d) You take a random sample of 5 students from each block A class to determine their attitudes toward the new school attendance policy.
7) When a phone questionnaire is conducted, many people with call display will not answer their phone. What kind of bias does this represent? What can be done to minimize this kind of bias?
8) Suppose you want to know the average amount of money spent by the fans attending opening day for the Toronto Blue Jays. You get permission from the team's management to conduct a survey at the

stadium, but they will not allow you to bother the fans in the club seating or box seats (the most

this survey method?

expensive seating). Using a computer, you randomly select 500 seats from the rest o the stadium. During the game, you ask the fans in those seats how much they spent that day. What type of bias is present in