NAME:			
INAIVIL.			

Problem Set 1 (Chapter 1)

1) Circle the following that are a component of	a Geographical Information System (GIS)		
a) software	f) data management		
b) reference book library	g) spatial index		
c) spatial data	h) satellite orbits		
d) Global Positioning System (GPS)	i) instrument analysis		
e) analysis procedures	j) 🗌 people		
2) Define or explain the following terms and ph	prases:		
a) Spatial Data:			
b) Attribute Data			
c) Map Projection:			
3) List the three basic spatial entities:			
a) b)		
c)			

a) Entity Type: Model Type:	
b) Entity Type: Model Type:	
c) Entity Type: Model Type:	
d) Entity Type: Model Type:	
e) Entity Type: Model Type:	+ _Q

f) Entity Type:	
Model Type:	
g)	
Entity Type:	
Model Type:	
5) Describe recent instances that you have cold in one way or another in the past month.	lected, analyzed, or communicated spatial data
a) Collected Spatial Data:	
b) Analyzed Spatial Data:	
b) Communicated Spatial Data:	
6) Convert between degrees, minutes, seconds example below for guidance.	(DMS) format and decimal degrees (DD). See

DD from DMS DD = D + M/60 + S/3600	a) 45 ° 32' 55"
e.g. DMS = 32° 45' 28"	
DD = 32 + 45/60 + 28/3600 = 32 + 0.75 + 0.0077778 = 32.7577778	b) 28 ° 34' 12"
DMS from DD D = integer part M = integer of decimal part × 60 S = 2nd decimal × 60 e.g. DD = 24.93547	
D = 24 M = integer of 0.93547 × 60 = integer of 56.1282 = 56 S = 2nd decimal × 60 = 0.1282 * 60 = 7.692 so DMS is 24° 56' 7.692"	c) -78.62791
	d) 113.46077
7) For the following attribute data, a	letermine the type of measurement (nominal, ordinal,
a)	Celsius temperature scale
b)	Scoville heat scale
c)	Weight of the contestants on The Biggest Loser
d)	License plate numbers
8) Determine the type of scale used i	n the following maps.
a)	658 (SWEETWATER NEEDLES) 66
	, SCALE 1:24 000
b)	1 cm = 1 km

Yakina
Uslon Gap
Wapate
Topposish
Sanayride
Norm
Prosser

Norm
On 10 29 30 40 59 MILL
On 10 20 30 MI

d)

9. Imagine you work for the local Parks and Recreation office and you want to create a new public park. Fill in the decision support tree to show how you would use a GIS to assist in choosing where to build a new park (see your class lecture notes or Figure 1.12 for an example).

