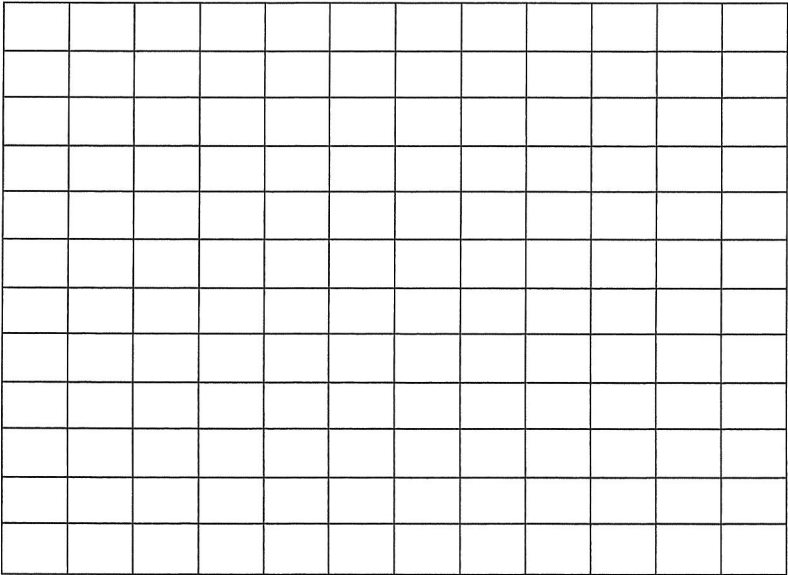
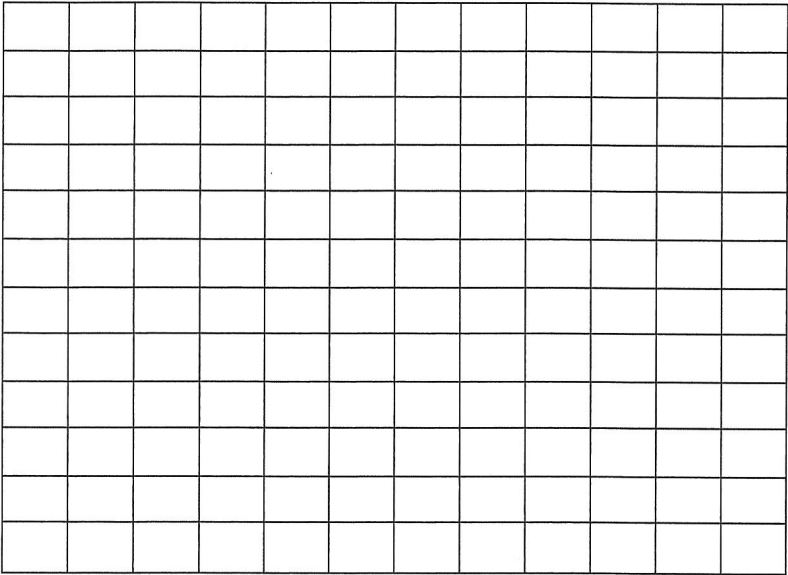


Name: _____

20. Use the frequency distribution below to construct a frequency polygon AND an ogive.

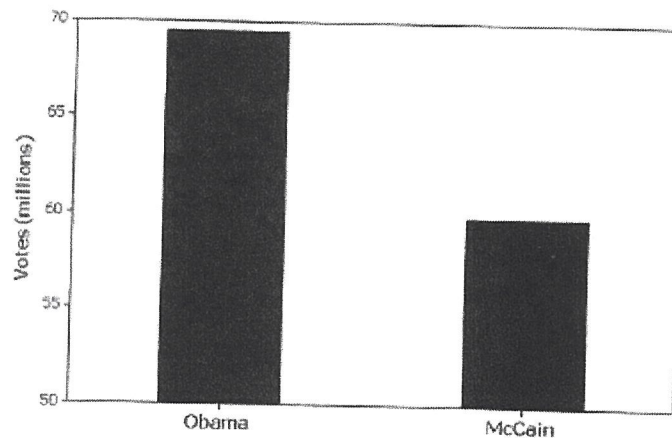
Earthquake Depths (km)	Frequency (days)
2.0–3.9	4
4.0–5.9	11
6.0–7.9	6
8.0–9.9	9
10.0–11.9	2
12.0–13.9	3
14.0–15.9	8
16.0–17.9	4
18.0–19.9	3



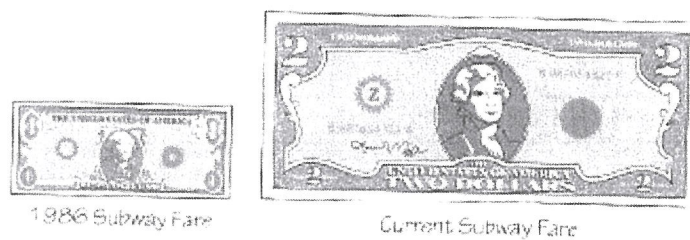
a. Applying a strict interpretation of the requirement for a normal distribution, do the depths appear to be normally distributed? Why or why not?

For questions 21-24, identify the characteristic that causes the graph to be deceptive.

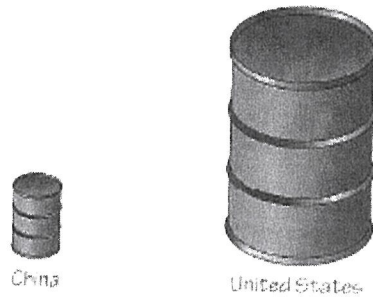
21. The accompanying graph depicts the numbers of votes (in millions) in the 2008 U.S. presidential election.



22. In 1986, the New York City subway fare cost \$1, and as of this writing, it costs \$2, so the price doubled. In the accompanying graph, the \$2 bill is twice as long and twice as tall as the \$1 bill.



23. China currently consumes 7.6 million barrels of oil per day, compared to the United States oil consumption of 20.7 million barrels of oil per day. In the accompanying illustration, the larger barrel is about three times as wide and three times as tall as the smaller barrel.



24. Data set 14 in appendix B lists braking distances in feet of different cars and the braking distances of three of those cars are shown in the accompanying illustration.

