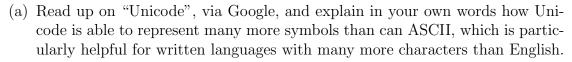
Name:	
Section:	Week 1 Practice Problems

Date:

Feel free to use the paper tool we made in class!

1.	ecall that we looked at ASCII in lecture, which uses just 7 or 8 bits to represe	nt
	tters of the alphabet.	

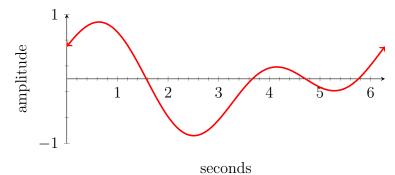


(b) What is the binary number that corresponds to the Unicode character "A"?

## 2. Decode the message:

0b01000001 01101110 01110011 01110111 01100101 01110010 00100000 01101001 01110011 00100000 00110100 00110100 00101110

3. "Digitize" the following audio (analog) signal by choosing a sampling frequency, drawing "lollipops" at that sampling frequency, and recording the approximate amplitude of each "lollipops". Use as many rows of the chart as needed!



Time (seconds)	Amplitude/Volume

4. If an image originally takes up 20kb of memory, and a certain algorithm compresses that image down to 10kb, what is the compression rate of this algorithm?