

025:250 Electronic Media I
Assignment 4, due Sept. 18

Name _____

Show all steps and correctly label each frequency, period, and sampling rate as Hz, ms and kHz, respectively.

1. If a sound has a frequency f of 1000 Hz, what is its period T in milliseconds?

- a)
- b)
- c)
- d)

2. If a sound has a frequency f of 440 Hz, what is its period T in milliseconds?

- a)
- b)
- c)
- d)

3. If a sound has a period T of 3.2 ms, what is its frequency f in Hertz?

- a)
- b)
- c)

4. If a sound has a period T of 0.5 ms, what is its frequency f in Hertz?

- a)
- b)
- c)

5. What is the frequency f of C3?

- a)
- b)
- c)
- d)
- e)
- f)
- g)

6. What is the frequency f of Bb6?

- a)
- b)
- c)
- d)
- e)
- f)
- g)

7. If a sound has a sampling rate of 44.1 kHz, what sampling rate will lower its pitch by 2 semitones?

- a)
- b)
- c)
- d)
- e)

8. If a sound has a sampling rate of 44.1 kHz, what sampling rate will raise its pitch by 4 semitones?

- a)
- b)
- c)
- d)
- e)