

Sounds of Music Quiz  
by Anna Sohn

Name: \_\_\_\_\_ Score: \_\_\_\_ out of 42

1. Define sound. (1)

2. What kind of waves are sound waves? (1)

- a. Transverse
- b. Longitudinal

3. Why does the graph of a sound wave look wavy when sound waves aren't actually wavy in the form represented on the graph of a sound wave? (3)

4. Define acoustics. (2)

5. Explain why sound travels more quickly in solids than in gases. (1.5)

6. What is the speed of sound in air? (1)

Match. (4)

5. \_\_\_ Aerophones

6. \_\_\_ Membranophones

7. \_\_\_ Chordophones

8. \_\_\_ Idiophones

a. Sound is produced by the instrument itself vibrating

b. Sound is produced by vibrating air columns

c. Sound is produced by vibrating strings, usually has a resonator

d. Sound is produced by vibration of a stretched membrane over a resonator

9. Define timbre. (1.5)

10. What are harmonics? (3)

11. What range of sound frequencies are audible to humans? (2)

- a. 20 to 20000 Hz
- b. 30 to 1000 dB
- c. 200 to 40500 Hz
- d. 100 to 20000 Hz

12. Explain how your instrument makes sound. (5)

13. Explain how you play or how you made your instrument affects pitch. (5)

14. Explain how you play or how you made your instrument affects amplitude. (5)

15. Explain how you play or how you made your instrument could affect the timbre of your instrument. (7)