

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Waves, Waves, Waves! Quiz Answers

### True or False

- T** 1. The wavelength (of a sinusoidal wave) is the distance from one crest to the next crest.
- F** 2. In a standing wave, the **nodes** move up and down.
- F** 3. P-waves (primary) and S-waves (secondary) are example of **surface** waves.
- T** 4. P-waves can travel in any type of material (solids, liquids, and gases).

### Multiple Choice

5. Two types of **seismic** waves are \_\_\_\_\_ waves.
- a. standing and sinusoidal                      b. light and sound
- c. body and surface**                              d. pressure and primary
6. Engineers use a \_\_\_\_\_ to test the response of **structures** to verify their seismic performance.
- a. conductor              b. spectrograph              c. centrifuge              **d. shake table**
7. A wave with a high frequency will have a \_\_\_\_\_ wavelength.
- a. long                              **b. short**
8. At a location 10 km from the epicenter of an earthquake, the first type of seismic wave to arrive will be a \_\_\_\_\_.
- a. P-wave**              b. S-wave              c. Rayleigh wave              d. Love wave