

1. False

2. If the wave travels 2.5 meters in one second then it will travel 5.0 meters in 2.0 seconds. If Wilbert gets drenched every time the wave has traveled 5.0 meters, then he will get drenched every 2.0 seconds

3. 0.5 Hz

4. **Destructive interference** is a type of interference which occurs at any location along the medium where the two interfering waves have a displacement in the opposite direction.

5. Primary

6. A. Wavelength

6. B. Direction of Wave Travel

6. C. Amplitude

7. B.

8. Amplitude

9. Primary

10. B.

11. **Constructive interference** is a type of interference which occurs at any location along the medium where the two interfering waves have a displacement in the same direction.

12. B.

13. Period

14. C. (A has no unit!)

15. B.

16. Destructive

17. Gamma Rays

18. Pros- Vitamin D production. Cons- Cancer/Death

19. False- Color Imaging

20. B.