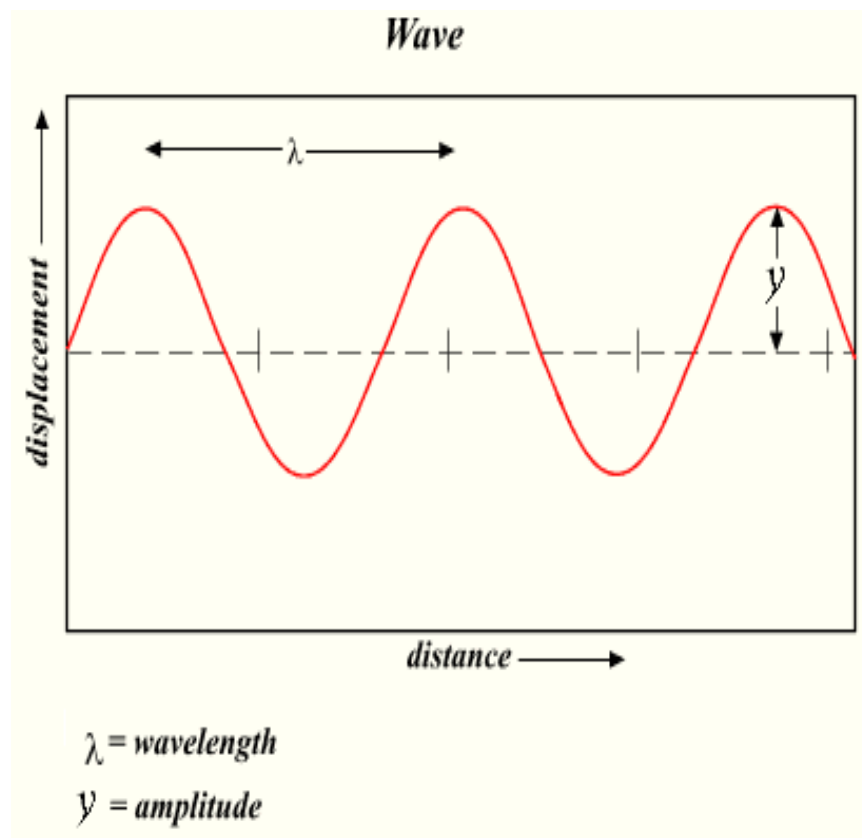


School: _____

Team (circle): **A B C**

Team Members: _____ & _____

2009 Crave the Wave Practice Test



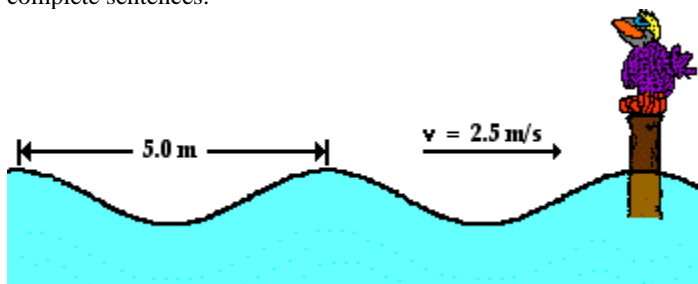
Note: Do not open this packet until the supervisor says so. Put your school and names on each of the test papers. This test is worth 47 points. GOOD LUCK!

School: _____

Team (circle): **A B C**

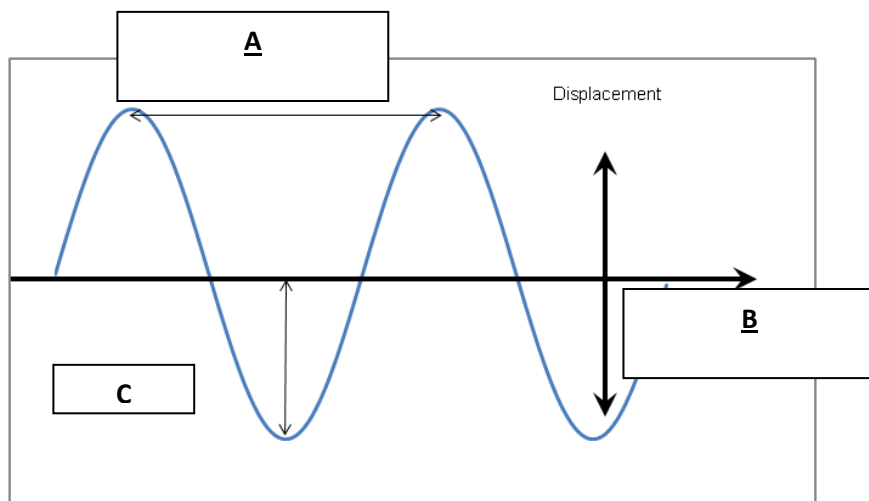
Team Members: _____ & _____

1. **TRUE** or **FALSE**:
Doubling the frequency of a wave source doubles the speed of the waves.
2. The water waves below are traveling along the surface of the ocean at a speed of 2.5 m/s and splashing periodically against Wilbert's perch. Each adjacent crest is 5 meters apart. The crests splash Wilbert's feet upon reaching his perch. How much time passes between each successive drenching? Answer and explain using complete sentences.



3. If the period is 2 seconds, what is the Frequency? _____ Hz
4. What is Destructive Interference?
5. Which seismic wave is faster? Primary waves or Secondary waves?
6. Identify the following letters:

- A:
B:
C:



7. What types of waves are electromagnetic?
A. Surface Waves
B. Transverse Waves

School: _____

Team (circle): **A B C**

Team Members: _____ & _____

C. Longitudinal Waves

8. If the _____ of the wave is increased, then the energy is increased.
9. What types of earthquake waves are first to arrive?
10. Which type of earthquake wave more deadly?
 - A. Primary
 - B. Secondary
11. What is constructive interference?
12. The node is the area of:
 - A. Displacement
 - B. No displacement
 - C. Space
 - D. None of the above
13. Frequency is inversely proportional to _____.
14. If a golf ball is hit at a 30 degree angle, what angle will it come back?
 - A. 30
 - B. 50 degrees
 - C. 30 degrees
 - D. None of the above.
15. The incident ray is coming:
 - A. Away
 - B. Towards
16. An earphone blocking out sound is an example of what type of interference?
17. What type of EM Wave has the highest frequency?
18. What are the pros and cons of UV Radiation?
19. Infrared rays can be used in remote sensing as _____ - _____ imaging.
20. What waves constantly collapse buildings?
 - A. Rayleigh
 - B. Love
 - C. Primary
 - D. None of the above.

SCORE: _____ / 47

Comments: