

Assignment Speed of Sound and Intensity

Due: May 27, 2020

Total: /10

Name:

1. Lucas and Eric are swimming on a balmy 22°C day in Georgian Bay when suddenly there is a boat explosion off in the distance. If both Lucas and Eric are underwater, where the speed of the sound is 1200 m/s , when the explosion occurred but popped their heads above the water and heard the explosion again 3 seconds later how far away is the explosion?

2. Rock concert is happening in the distance. How much more intense is the sound from 500 m away then 750 m away?