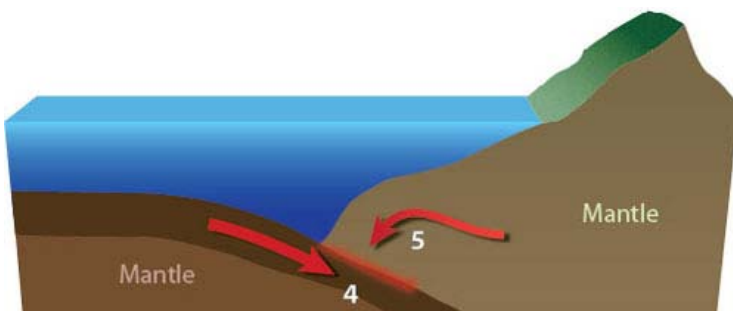




## Tsunami - Review Questions

1. Tsunamis can be called by the more common name of 'tidal wave'. (TRUE, FALSE)
2. Tsunamis are caused by each of the follow except:
  - a. Earthquakes
  - b. Hurricanes
  - c. Volcanoes
  - d. Landslides
3. Tectonic plates are moving up to \_\_\_\_\_ inch(es) per year.
  - a. two
  - b. three
  - c. four
  - d. one
4. The type of fault that causes the most tsunamis is called the:
  - a. reverse fault
  - b. normal fault
  - c. slip-reverse fault
  - d. slip-strike fault
5. A magnitude 7.0 Richter scale earthquake is \_\_\_\_\_ times more powerful than a 4.0 magnitude earthquake.
  - a. 3
  - b. 30
  - c. 300
  - d. 1000
6. As a tsunami wave approaches the coast it begins to move \_\_\_\_\_ (faster/slower) and the height of the wave \_\_\_\_\_ (increases/decreases).
7. This type of fault where one plate is forced under another plate is called a...
  - a. normal fault
  - b. abnormal fault
  - c. reverse fault
  - d. slip-strike fault



8. After a tsunami wave passes your location it is safe to return to the water. (TRUE, FALSE)
9. Most tsunamis occur in the \_\_\_\_\_ Ocean.
- Atlantic.
  - Indian.
  - Pacific.
  - Antarctic.
10. More tsunamis occur in the \_\_\_\_\_ (Mediterranean Sea / Caribbean Sea) than in the \_\_\_\_\_ (Mediterranean Sea / Caribbean Sea).
11. \_\_\_\_\_ buoys help maintain and improve the capability for the early detection and real-time reporting of tsunamis.
- DART (**D**eep-ocean **A**ssessment and **R**eporting of **T**sunamis)
  - TADR (**T**sunami **A**lert and **D**ePTH **R**eporting)
  - TART (**T**sunami **A**ssessment in **R**eal **T**ime)
  - DATB (**D**ata **A**ssimilation from **T**sunami **B**uoys)
12. A tsunami \_\_\_\_\_ is the highest level of tsunami alerts and are issued due to the imminent threat of a tsunami from a large undersea earthquake or following confirmation that a potentially destructive tsunami is underway.
- watch
  - warning
  - bulletin
  - alarm
13. If you feel a strong earthquake while at a beach you need to get on the Internet to check if a tsunami warning has been issued for your area. (TRUE, FALSE)
14. A tsunami generated from an earthquake in Chile can arrive in Japan in about \_\_\_\_\_ hours.
- 3
  - 12
  - 15
  - 22

15. Buoys that monitor tsunamis can accurately detect water level changes as small as \_\_\_\_\_ millimeter(s) at depths up to \_\_\_\_\_ feet.
- 10 / 20,000
  - 1 / 20,000
  - 20 / 10,000
  - 5 / 10,000
16. Of all tsunamis produced by earthquakes, landslides and volcanoes \_\_\_\_\_ % are produced directly by earthquakes.
- 56
  - 61
  - 74
  - 83
17. In the open ocean, tsunami waves travel as fast as \_\_\_\_\_.
- A 'top-fuel' dragster
  - A jet plane
  - As the wind in a category 5 hurricane
  - The speed of sound
18. Tsunamis are more likely to happen from \_\_\_\_\_ (shallower & larger / deeper & smaller) earthquakes than \_\_\_\_\_ (shallower & larger / deeper & smaller) ones.
19. The daily tidal variation of sea-surface height is much greater by far compared to tsunamis induced height changes in the open ocean. (TRUE, FALSE)
20. As a tsunami approaches shorelines, the wave's period \_\_\_\_\_ with no decrease in the wave's energy..
- decreases by 20%
  - Increases by 20%
  - remains the same
  - decreases by 40%