

Chapter 8 review sheet

j. Most ocean waves are generated by:

earthquakes landslides human activities
wind variations in the density of ocean water

k. ocean waves are considered to be:

longitudinal waves transverse waves orbital waves
electromagnetic waves seismic waves

l. what happens at wave base?

water motion caused by waves is at its maximum

water motion caused by waves becomes negligible

water motion caused by waves is equal to $\frac{1}{2}$ of the water motion at the surface

wave base is where the waves touch the ocean bottom and nothing happens

m. the depth of wave base is:

equal to wave height equal to wave length 1 foot
equal to one half of wave length equal to two times wave length

n. the area where wind-driven waves are generated is called:

swell fetch sea ocean wave base

o. what happens to waves when they travel in waters that are shallower than wave base?

they stop traveling they slowly dissipate without any major evidence at the surface

they break, creating a surf they speed up nothing really changes

p. wave refraction..

does not really exist only happens on islands only happens in the open ocean

happens because waves approach coastlines at an angle

happens because of the interference between waves and surface ocean current

q. what can cause a tsunami?

earthquakes landslides submarine volcanic eruptions

meteorite impacts all of these

r. with respect to the ocean bottom depth, tsunamis are:

always deep water waves always shallow water waves

sometimes deep water, sometimes shallow water waves, depending on the cause of tsunami