

TSUNAMIS IN OREGON

CHOOSE THE CORRECT ANSWER...TEST YOUR TSUNAMI (SOO-NAM-EE) KNOWLEDGE!

- A.** Based on geologic evidence, how often have large local offshore earthquakes capable of generating tsunamis struck Oregon?
a. Every 50-100 years **b.** Every 300-600 years **c.** None. There is no way to determine when tsunamis have struck the Oregon coast.
- B.** Where can earthquakes occur that could cause tsunamis to strike the Oregon coast?
a. Cascadia Subduction Zone located off the Oregon coast. **b.** Alaska and Russia **c.** a and b
- C.** In the open ocean how many miles per hour can a tsunami travel?
a. 75 miles per hour **b.** 200 miles per hour **c.** 500 miles per hour, about the speed of a commercial jet
- D.** How long can it take a tsunami generated by an earthquake in Alaska to reach Oregon's coastline?
a. 5 to 30 minutes **b.** 6 or more hours **c.** Unable to determine
- E.** When a local tsunami occurs from an earthquake on the Cascadia Subduction Zone, how long before the first wave arrives on shore?
a. 5-30 minutes **b.** 1-3 hours **c.** 5-10 hours

Heed this safety information on tsunami preparedness but do not let it deter you from enjoying the Oregon coast. Tsunamis do not happen very often, but by planning ahead, you will know how to respond if you feel an earthquake or hear that a tsunami warning has been issued by the authorities. What you learn from this information could save your life!

For further information on earthquake and tsunami preparedness, contact Nature of the Northwest Information Center in Portland, the Oregon Department of Geology and Mineral Industries, Oregon Emergency Management, the American Red Cross, or local and county emergency management agencies. Your local library will have information on natural hazard disaster planning so you can prepare for these events. Look for tsunami hazard zone and tsunami evacuation route signs and other tsunami related public information items in communities along the Oregon coast.

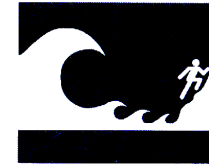
Answers for other side: True: 1, 2, 4, 5, 7, 9, 10 False: 3, 6, 8



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TRUE OR FALSE...TEST YOUR TSUNAMI (SOO-NAM-EE) KNOWLEDGE!

- 1.** A tsunami has nothing to do with the tide, but most often is caused by undersea earthquakes.
- 2.** As the tsunami wave approaches the coastline and shallower water, its speed slows and height increases dramatically.
- 3.** A person can run faster than a tsunami once it reaches the shore.
- 4.** A tsunami is not a single wave, but a series of waves that arrive over 8 to 10 hours; the second and third waves can be larger than the first.
- 5.** The rapidly rising sea level at the shore caused by the high velocity tsunami picks up debris, boats, logs and other materials that can further destroy buildings and injure people.
- 6.** People in low-lying areas near the ocean are not at risk of tsunami flooding.
- 7.** Scientific evidence shows that the last major tsunami to strike the Oregon coast was in January 1700.
- 8.** Nearby earthquakes, on the Cascadia Subduction Zone located off the Oregon coast, can't generate local tsunamis before a warning can be issued.
- 9.** The Oregon coast can experience a "distant" tsunami from an earthquake occurring in other parts of the world.
- 10.** To escape a tsunami, sometimes evacuating inland away from the coastline is as important as going to high ground.



Answers for other side: A: b B: c C: c D: b E: a