

Problem 1: You want to create a submarine that allows you to gain access to at least 80% of the Earth's surface, including the continents. How deep into the ocean can this submarine go? (80% of the Earth's surface is above what depth in the ocean)?

Problem 2: You've just invented a new alloy for a submarine that can withstand underwater pressures to a depth of 4.5 km below sea level. If this is the maximum depth to which an oceanographer interested in the sea floor could go, what percentage of the Earth's surface is inaccessible to your ocean floor study?

Problem 3: Most plants cannot exist above 4 km above sea level. What percent of the Earth's surface is higher than this?

Problem 4: Most oceanic fish cannot live in depths below 4 km below sea level, and obviously can't live in areas that are above sea level. What percentage of the Earth can they occupy? that is, what percentage of the Earth's surface is between 4 kilometers below sea level and sea level?

