



## Problem of the Week

### Problem B

### Up and Down

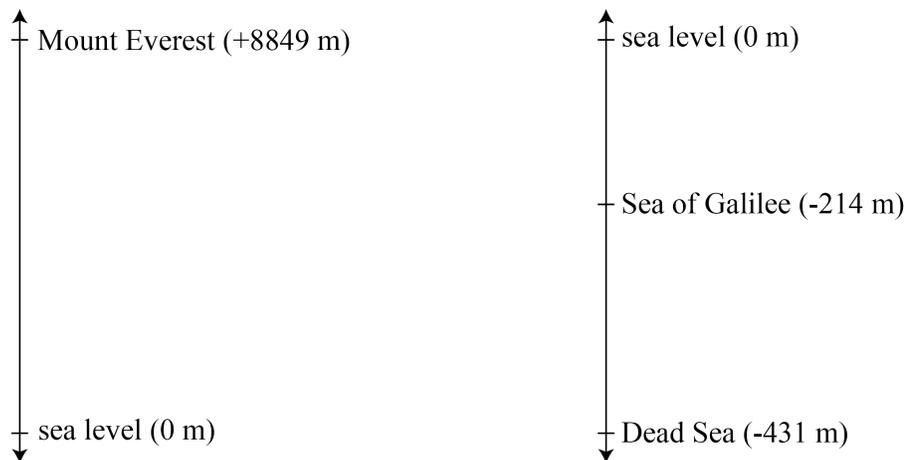
Sea level is the level of the sea's surface along a coast of land; it is often taken as the midpoint between average low and high tide levels. The elevation of a location is measured as its vertical distance above or below sea level.

- (a) The table shows some geographical locations as well as their elevation. List the locations in order from highest elevation to lowest elevation.

| Location  | Elevation              |
|---|------------------------|
| New Orleans, Louisiana, USA                                 | 2 m above sea level    |
| Mount Fuji, Japan   | 3776 m above sea level |
| Caspian Sea, Eastern Europe                                 | 28 m below sea level   |
| Badwater Basin, Death Valley, California, USA               | 86 m below sea level   |
| Laguna del Carbón, Argentina (lowest point in the Americas) | 105 m below sea level  |
| Mount Kilimanjaro, Tanzania                                 | 5895 m above sea level |
| Veryovkina Cave entrance, Abkhazia (deepest known cave)     | 2285 m above sea level |
| Ryfast Tunnel, Norway                                       | 292 m below sea level  |
| Lake Assal, Djibouti  | 155 m below sea level  |
| The Matterhorn, a mountain in the Alps                      | 4478 m above sea level |

- (b) The highest point on Earth is Mount Everest, which is approximately 8849 m above sea level. The lowest land point on Earth is the Dead Sea, which is 431 m below sea level. The nearby Sea of Galilee is 214 m below sea level.

In the number lines below, we have written elevations above sea level as positive numbers (+) and elevations below sea level as negative numbers (-). Place the locations from the table in their approximate positions on the number lines.



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