

Challenge

Problem-Solving Strategy: Too Much or Too Little Information

Read the statements below and look at the table. Choose a strategy to answer each question. If not enough information is given, tell what information is needed to solve the problem.

- Mt. Whitney is the highest point in California and Death Valley is the lowest point.
- The average flow of water over Niagara Falls is 212,200 cubic feet per second.
- The deepest point of Lake Huron is 750 feet.
- Lake Superior is 410 feet deeper than Lake Michigan. Lake Michigan is 173 feet deeper than Lake Huron.
- The average flow of water over Victoria Falls is 35,400 cubic feet per second.

Mountain Peak	Location	Height in feet
Mt. McKinley	Alaska	20,320
Mt. Whitney	California	14,494
Mt. Elbert	Colorado	14,433
Mt. Rainier	Washington	14,410
Mt. Everest	Nepal/Tibet	29,035
Mt. Kilimanjaro	Tanzania	19,340

1. In one second, how much more water flows over Niagara Falls than over Victoria Falls?

2. How deep is Lake Superior at its deepest point?

3. What is the difference between the highest and lowest points in California?

4. Which mountain in the United States is higher than Mt. Kilimanjaro? How much higher is it?

5. How much higher is Mt. McKinley than Mt. Lhotse?

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1. In one second, how much more water flows over Niagara Falls than over Victoria Falls?

176,800 cubic feet per second

2. How deep is Lake Superior at its deepest point?

1,333 feet

3. What is the difference between the highest and lowest points in California?

Not enough information; you need to know the elevation of Death Valley.

4. Which mountain in the United States is higher than Mt. Kilimanjaro? How much higher is it?

Mt. McKinley; 980 feet higher

5. How much higher is Mt. McKinley than Mt. Lhotse?

Not enough information; you need to know the height of Mt. Lhotse.