DO NOT SOLVE THE PROBLEM BELOW. (It can't be solved anyway.) Instead, name THREE strategies that seem reasonable to attempt in solving it. Then *justify* each choice by telling what qualities the problem has that suit that particular strategy. Be careful: I'm only asking you to tell WHY you chose your strategy, not HOW you'd use it.

I am thinking of a number. It's less than 10, and when you double it, subtract 18, and then deduct one third of the result, you get 200,000,000. What's the number?

Now name ONE strategy that is unlikely to be useful in tackling this problem, and justify your choice as above.

(over)

Repeat the tasks on the front with this problem:

Dan's pool has a volume of 0.47 gallons. It's 5 feet deep, and 2 feet longer than it is wide. Which is the largest combination: length plus width, length plus depth, or width plus depth?