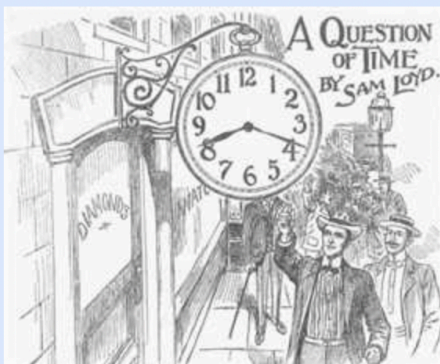


- **1-2.** Consider a sliding tile puzzle variant where the tiles are covered with a picture instead of numbers. How much does this increase the difficulty, and why?
 - It increases in difficulty as one needs to mentally assign a number to each photo in order to use a sorting method and unless the tiles are significantly different, that could be hard to keep straight in your head.
- **1-3.** Find a strategy for sliding tile puzzles different from mine.
 - Right now, I can't come up with a better way than the tile train and divide and conquer
- **1-4.** Search for old-fashioned puzzles of the fox, goose, and corn variety and try to solve them. Many of the great puzzles were originated or popularized by Sam Loyd, so you might search for his name. Furthermore, once you uncover (or give up and read) the solution, think of how you could make an easier version of the puzzle. What would you have to change? The constraints or just the wording?

The Puzzle:



The hour and minute hands are at equal distance from the 6 hour, what time will it be exactly?

- Many times — starting at 12:00, 1:05, 2:10, 3:15 have the hands in the same position and so they'd not be farther apart from the 6 o'clock hour — this was my guess. — I didn't realize the picture was the time we were to solve for... what's great about the

real solution is that it would work for any time of day if you were solving for hands equidistant and you knew the hour and the half-way hour.