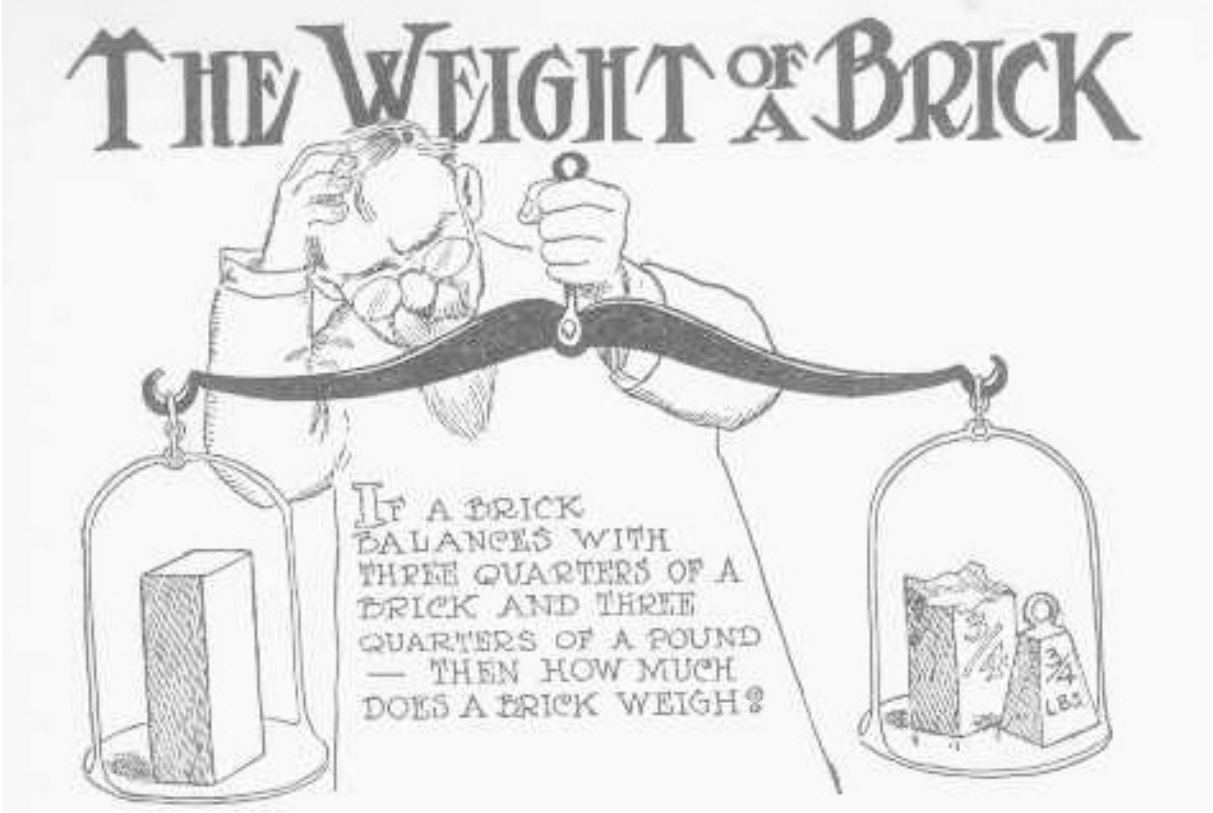
Sam Loyd's Problems

Problem # 1



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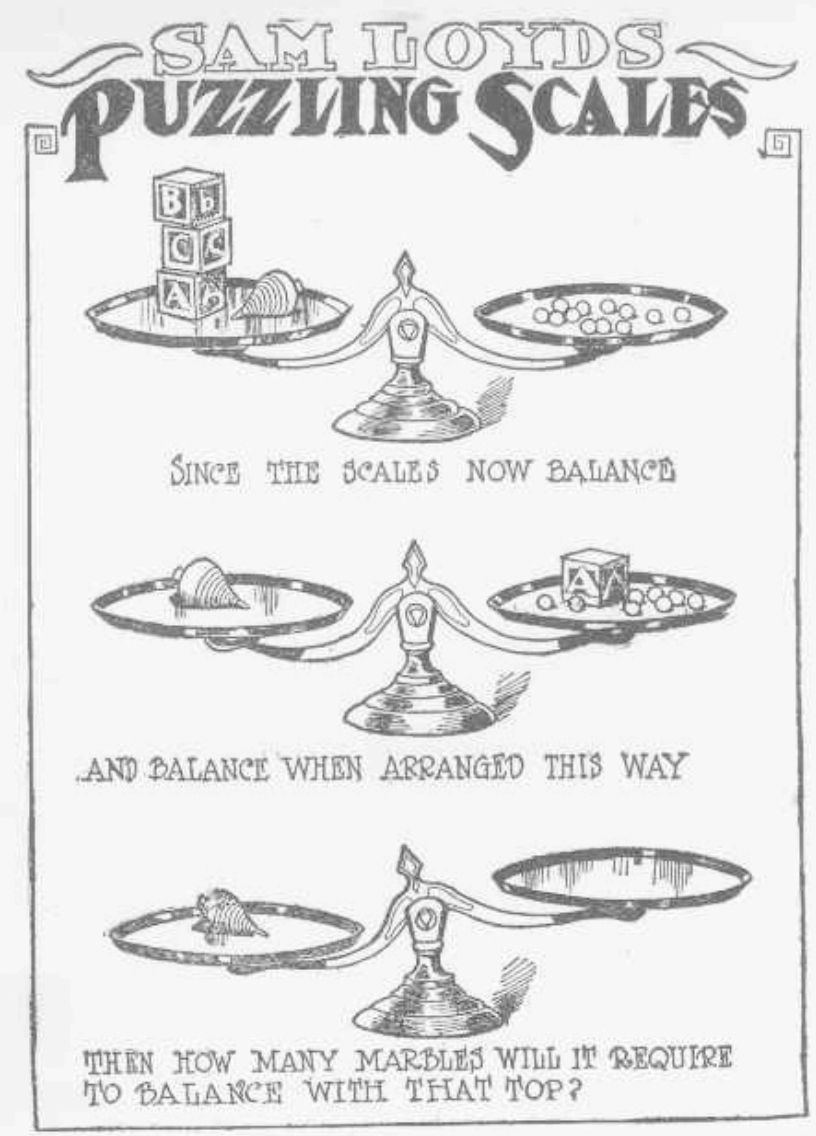
Problem # 2



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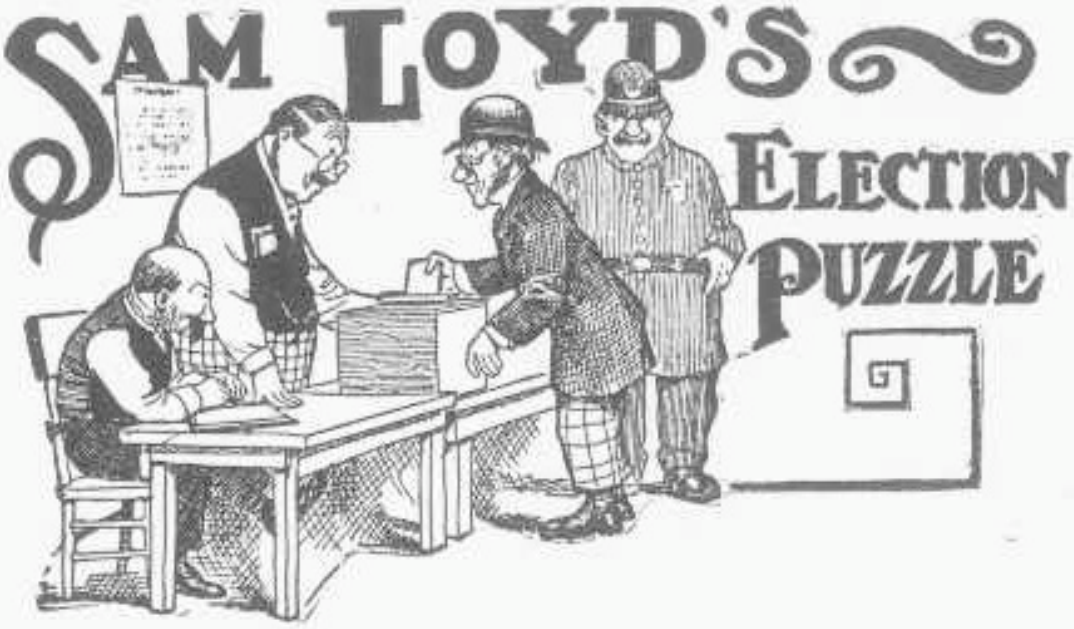
Problem # 3



Here is a simple but somewhat pretty problem which developed at a recent election where 5,219 votes were cast for four candidates. The victor exceeded his opponents by 22, 30 and 73 votes, and yet not one of them knew how to figure out the exact number of votes received by each.

Can you give a simple rule for giving the desired results?

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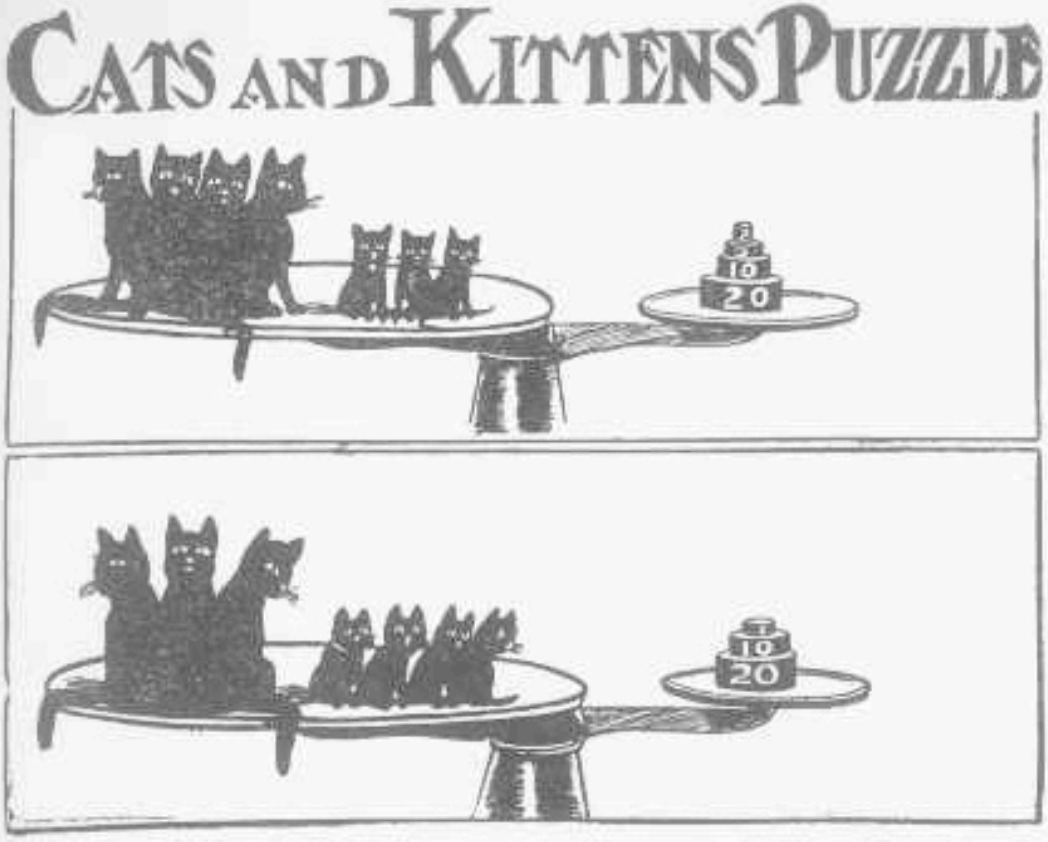
Problem # 4



Elementary Lessons in Algebra.

Seeing that four cats and three kittens weigh thirty-seven pounds, while three cats and four kittens weigh but thirty-three pounds, we are asked to tell the respective weight of cats and kittens.