Mathletes Problem of the Week #4

Probably Even

Choose four distinct numbers from the integers 1, 2, 3, 4, 5, 6, and 7 and add them together. Is the sum odd or even?

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a) How many different selections are possible so that the sum is even?
b) What if you chose three numbers? Are there more ways to make even sums now? fewer? Are they the same? Explain.

Solutions & Explanations: (Solve one or try both. Record your solutions below and on the back. Attach more paper if you need to!)

Name _____   Class _____

(First and last name, please!)   **Solutions due: November 2nd**