A screenshot of a cell phone

Description automatically generated

Shown here is the spreadsheet I used to calculate the solution(s) to part (d) of the assignment. It uses basic formulas paired with 25 values of *b* to calculate the corresponding values of *a*, showing solutions (where the corresponding value of *a* is a positive, whole number as outlined in part (b)).

The rows where solutions were found are underlined, and outlined on my main answer page.

Proof that these are valid solutions is below, using the formulated problem *42a + 119b = 1204*:

* a = 23, b = 2

42(23) + 119(2) = 966 + 238 = 1204

* a = 6, b = 8

42(6) + 119(8) = 252 + 952 = 1204