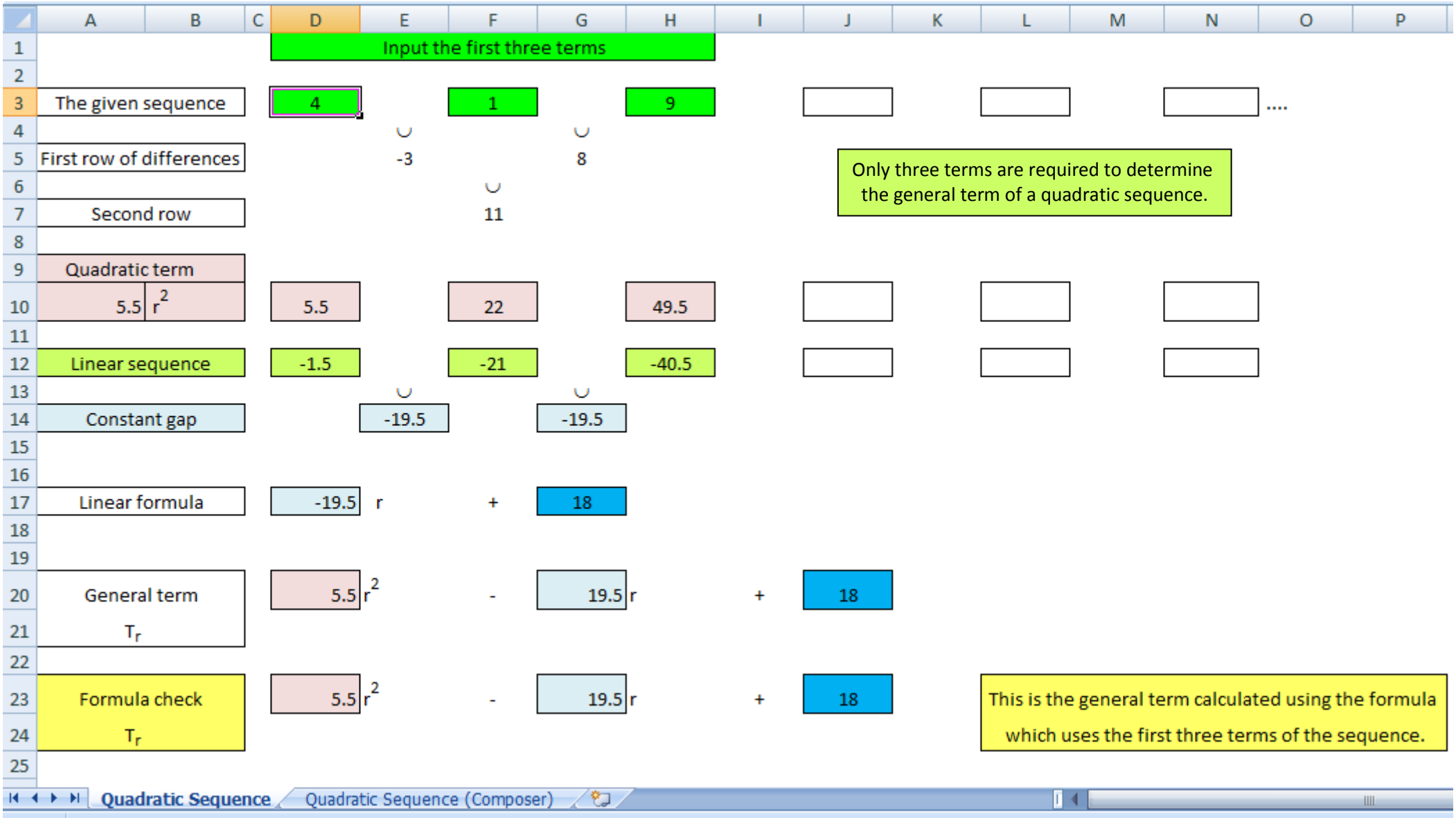
Quadratic Sequence Formula Guide



Open the MS Excel file "Quadratic Sequence Formula". Input the first three terms of the quadratic sequence.

The spreadsheet automatically shows the two rows of differences.

The sequence relating to the quadratic term is produced along with the required linear sequence. The spreadsheet gives the generating formula of the linear sequence.

The general term is calculated and checked using the formula derived in Tutorial 2.

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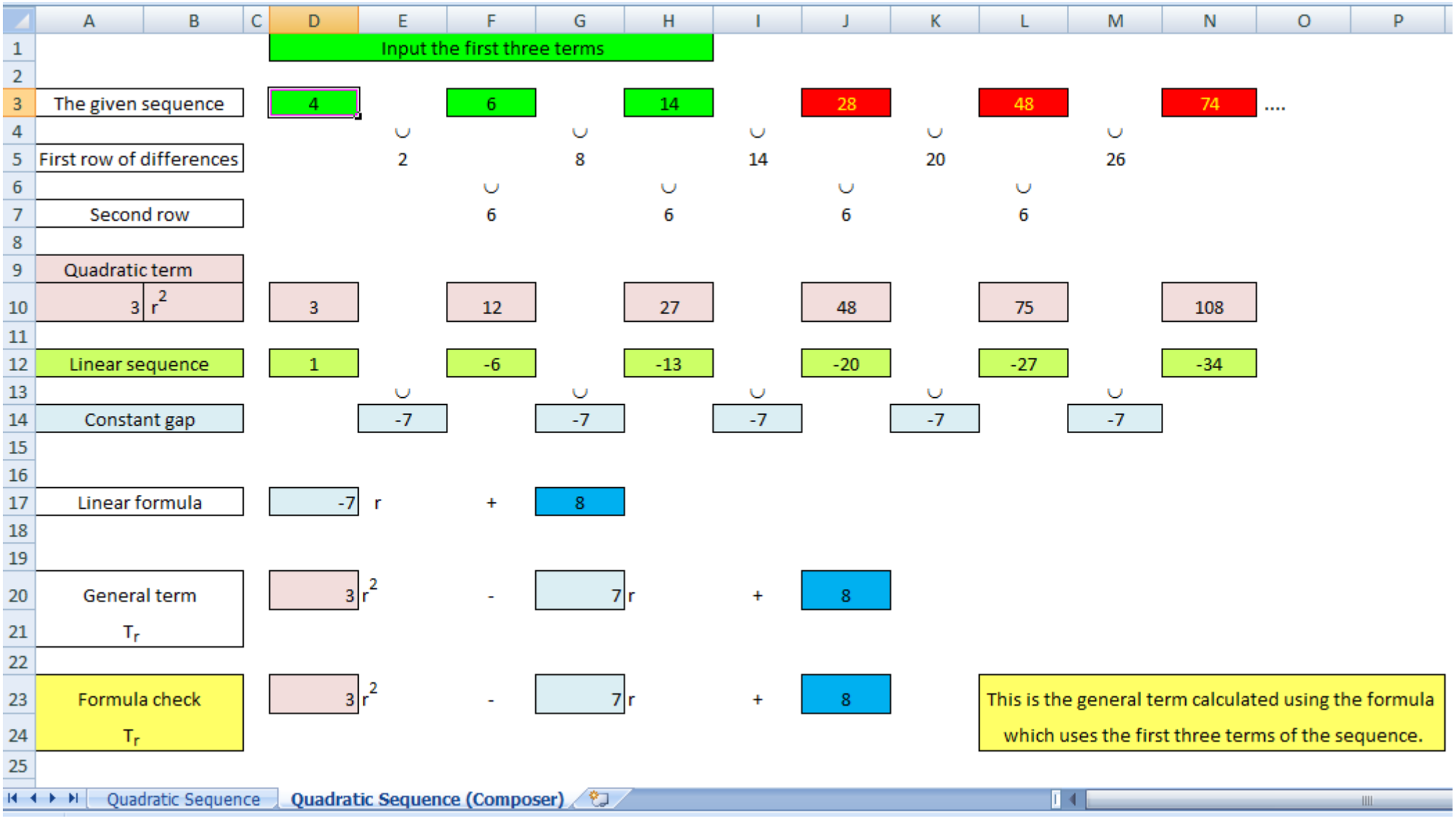

The Quadratic Sequence Composer can be used to help produce questions involving quadratic sequences.

Input the first three terms **only**. The spreadsheet calculates the next three terms of the sequence.

As in the previous case the general term is calculated and checked using the formula derived in Tutorial 2.

Terms can be omitted from the sequence to construct questions which require the application of the method of differences and algebra to solve.

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