Reprinted from Mathematics Magazine 40.2(1967)105.

Rhymed Square

631. [September, 1966] Proposed by J. A. H. Hunter, Toronto, Ontario, Canada.

My first and last add up to four.

My middle two to just eight more.

My second from my fifth makes three. I'm square! What must my whole six be?

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Since your fifth is greater than three,
Neither nought nor four may your last be.
Hence you end in one,
And the previous one
Must either eight, six, or four be.
So you start with three-five, three-three,
or three-one;
And now that all of this is done,
A table of squares do we consult,
To come up with the final result
Of three-three-seven-five-six-one.