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**Kim Plofker\*** ([Kim\\_Plofker@alumni.brown.edu](mailto:Kim_Plofker@alumni.brown.edu)), Mathematics Institute, University of Utrecht, Postbus 80010, 3508 TA Utrecht, Netherlands. *Decimal and sexagesimal computation in Indian mathematics.*

Decimal counting is attested, at least in verbal form, in ancient Indian literature from its very beginning. Centuries later, sexagesimal or base-60 place-value quantities also appeared in Indian texts, along with special arithmetic techniques for calculating with them. This paper examines how Indian base-60 arithmetic emerged, and what became of it in the overwhelmingly decimal practice of place-value computing. (Received September 22, 2005)