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Much of the attention given to computer assisted mathematics (CAM) has focused on proofs as a route to establishing mathematical truth. I shall emphasize instead the effects that CAM has on our understanding of results and the consequences of these effects for the practice of mathematics as an essentially human activity. Limitations arising from the finitistic nature of CAM and the epistemic opacity of its processes will be discussed. Its effects on applied mathematics will also be explored. (Received September 27, 2005)