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One approach to a one-semester calculus course is to emphasize applications, especially those that are real (rather than created for a textbook) and new (beyond the traditional applications such as maximizing the volume of a box). Several such applications will be described, including: discharge from a creek; unemployment rate; transforming grades; chirped echos at Chichen Itza; the Pythagorean Theorem of Baseball; Humidex; plant growth; phytoplankton growth; foraging; and administrative intensity. (Received July 22, 2015)