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William P Fox* (wpfox@nps.edu). *Applying the common sense test as a diagnostic in mathematical modeling for decision making or research.*

Mathematical modeling is performed often in both decision making and research. We present some examples of mathematical modeling to illustrate (1) when "common sense" must prevail over other diagnostics (2) when using the correct modeling technique and formulation leads to a better "common sense" result, and (3) when you do not have the proper tool available for a quick model. (Received September 11, 2014)