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Israel Kleiner* (kleiner@rogers.com), Department of Mathematics and Statistics, York University, Toronto, Ontario M3J 1P3, Canada. *Richard Dedekind (1831-1916): a path-breaking mathematician.*

I will discuss some of Dedekind's work, focusing on his path-breaking contributions: the founding of algebraic number theory, the definition of the real numbers in terms of Dedekind cuts, the establishment (jointly with H. Weber) of Riemann's algebraic function theory on a rigorous (algebraic) basis, and the definition of the natural numbers in terms of sets. (Received September 04, 2007)