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## Infinite Set Totality

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**Abstract:**

We present interesting comparisons of so-called “totalities” of subsets of metric spaces of various types, such as a comparison between the totality of a subset of the reals  $\mathbb{R}$  against the totality of a subset from the power set of the reals  $\mathbb{P}(\mathbb{R})$ . We use outer measure as one tool to define a set’s totality, which can be constructed as a refinement of the set’s cardinality and can then help clarify a foundational issue of real analysis.