

Is the concept *natural number* vague?

Dummett has argued that a consequence of Gödel's incompleteness theorems is that the concept *natural number* is vague. He takes this to be a corollary of the indefinite extensibility of the concept *ground for asserting something of all natural numbers*.

I argue that this concept is not indefinitely extensible, in light of other mathematical results in the vicinity (particularly Feferman's completeness theorem). Possible escape routes are discussed, but I argue that Dummett's vagueness claim cannot be upheld, even in the context of his constructivism.