

Which Cardinality Quantifiers are Logical?

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By a cardinality quantifier, I understand an expression of the form ‘There are at least X ...’ for X a cardinal. The finite cardinality quantifiers are thus all expressions of the form ‘There are at least n ...’ where n is finite. Since all these finite quantifiers are definable in first-order logic, they are generally taken to be logical. What about transfinite cardinality quantifiers, the first of which is ‘There are infinitely many’? Which of them is logical? I argue that they all are. The talk will explain the answer’s significance and the light it sheds on the perennial question ‘What is Logic?’.