

Cardinal Number Representation in Rhesus Macaques Kerry E. Jordan and Elizabeth M. Brannon Center for Cognitive Neuroscience and Department of Psychological and Brain Sciences, Duke University

Introduction

This work addresses the nature of cardinal number representation in nonhuman primates. While the abstract nature of such representations in adult humans is well-documented, less is known about the possible evolutionary origins of such central cognitive capacities. This series of delayed match-to-sample (DMTS) studies specifically investigates the abilities of rhesus monkeys to match stimuli based on number.

DMTS Method

Subjects and general apparatus:

- 3 female rhesus macaques (Mikulski, Schroeder, and Feinstein)
- Tested in primate chairs inside sound-isolated booths
- Responded via a touch screen for juice reinforcement



and element

control



	PSE	Weber fraction
Stim set 1	4.23	0.955
Stim set 2	3.45	0.579



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