

Books & Brain Development



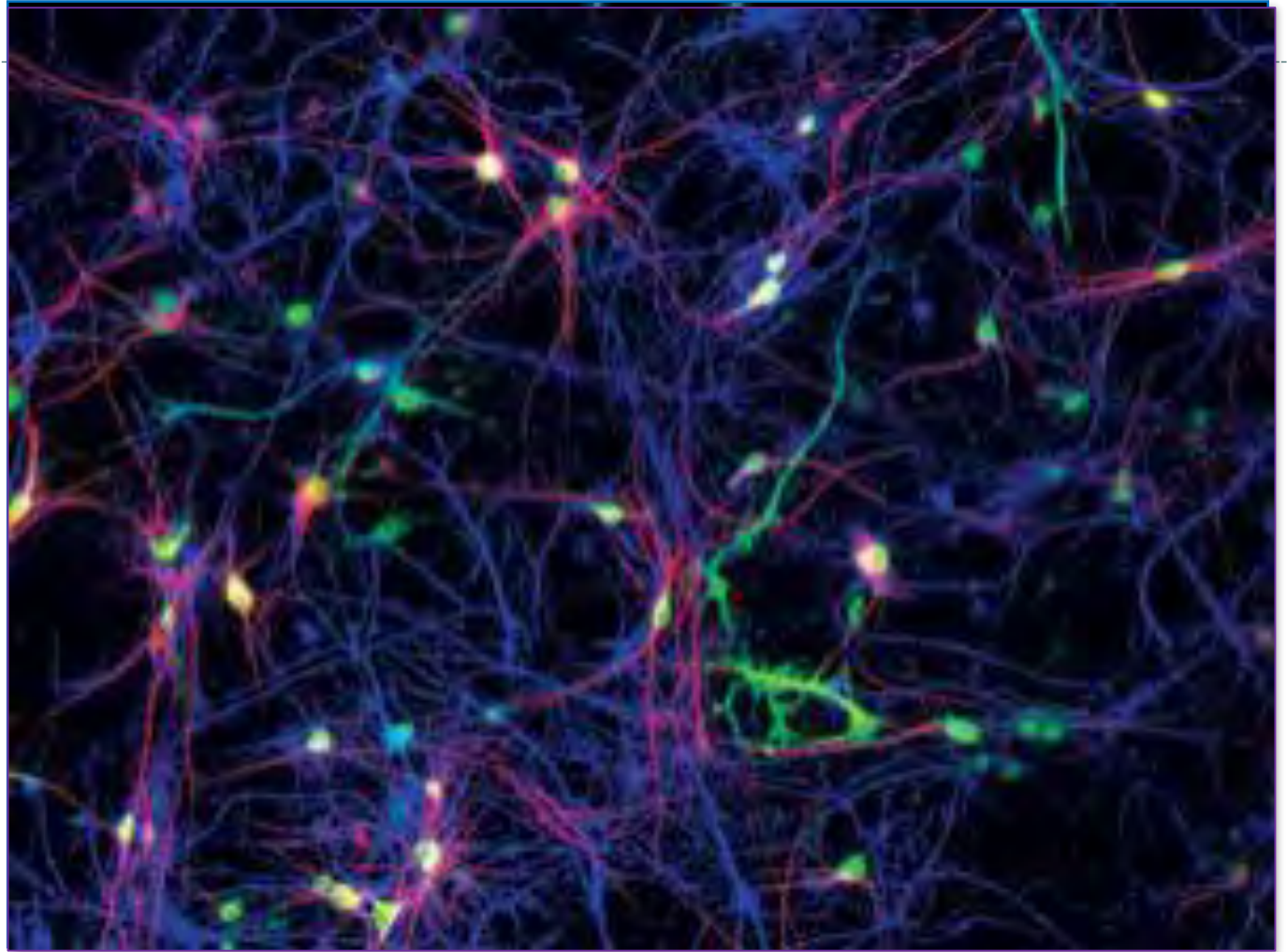
Creating Lifelong
Learners

Dolly Parton's
Imagination Library
Arkansas



PET Scan CAT Scan MRI FMRI Genome Project

A baby is born with 100 billion brain cells – called neurons.



Synaptic Density

Human Brain
at Birth



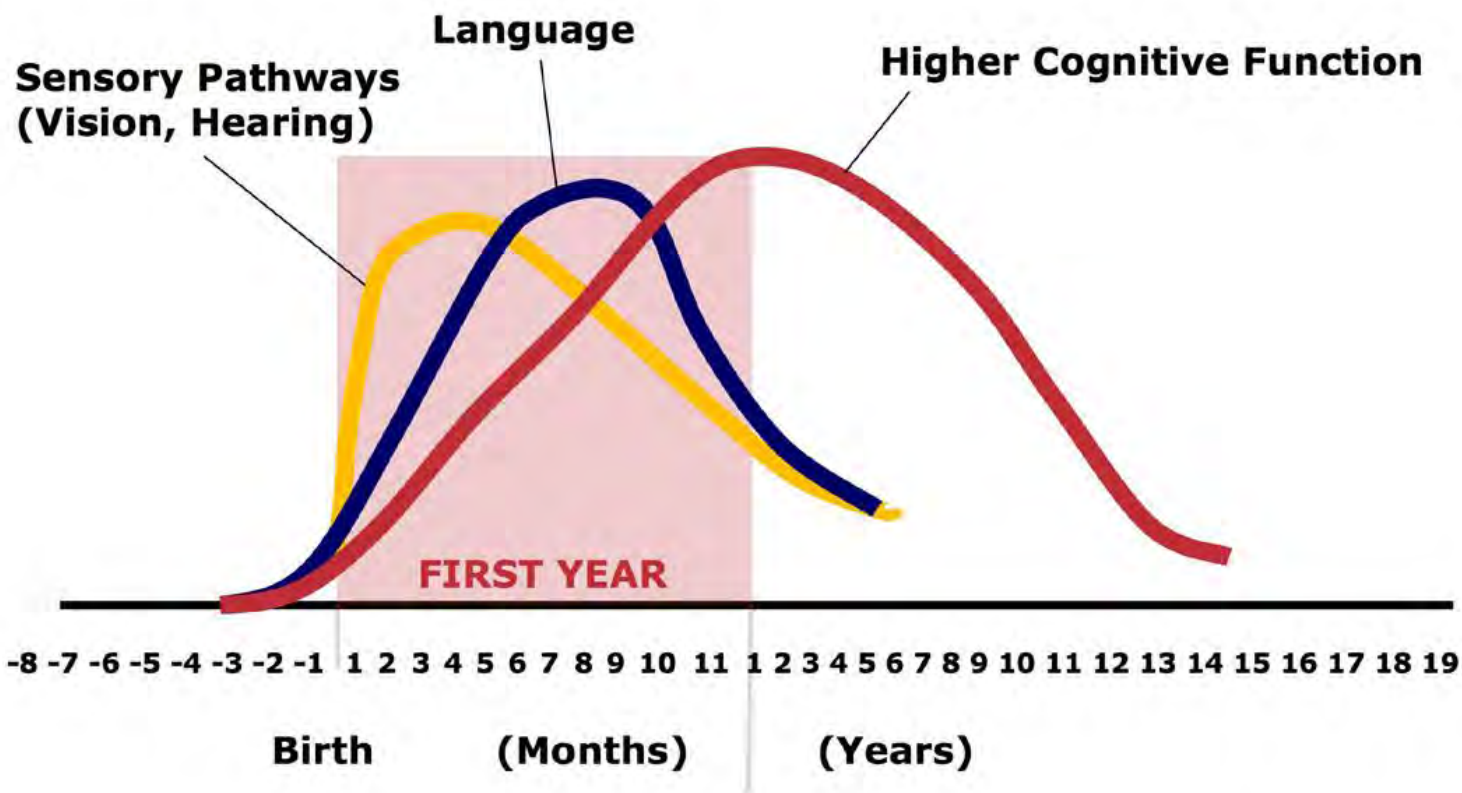
Human Brain
at 4th Birthday



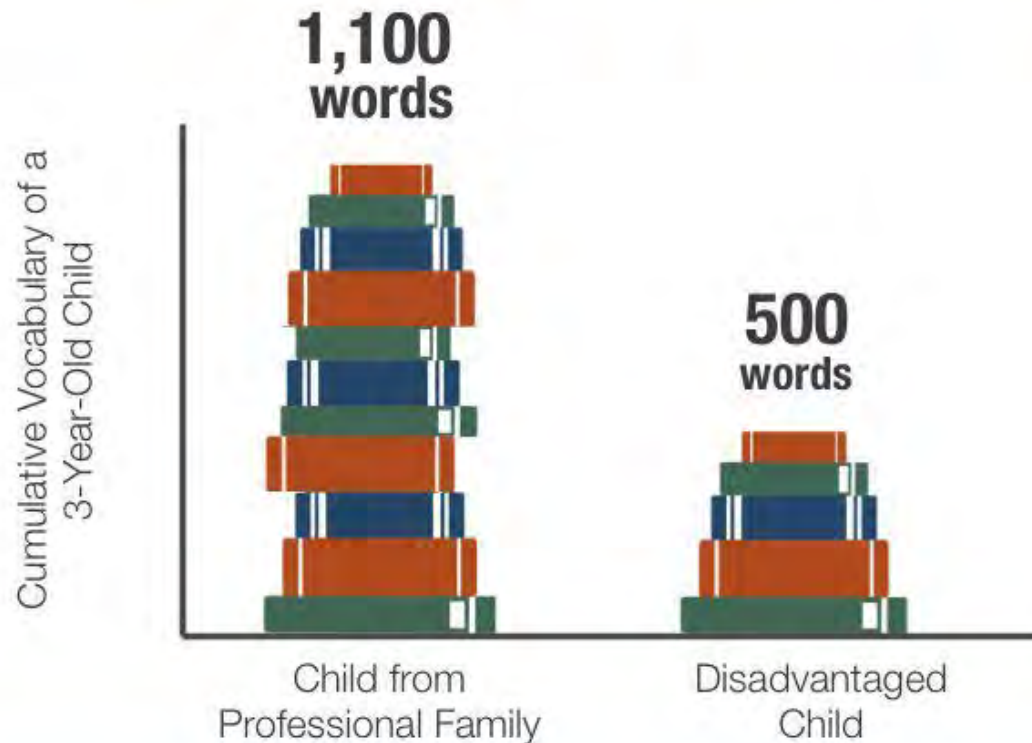


Human Brain Development

Neural Connections for Different Functions Develop Sequentially

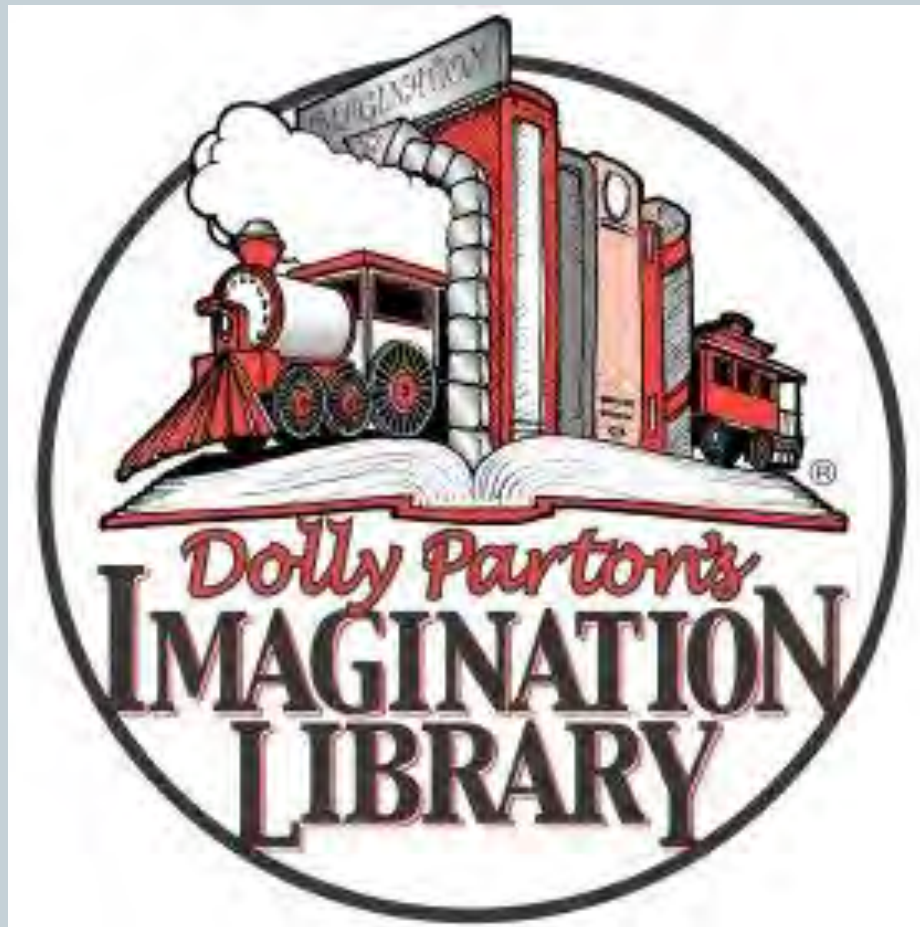


THE ACHIEVEMENT GAP STARTS AT BIRTH



LEARN MORE AT HECKMANEQUATION.ORG

About Imagination Library



What is the Imagination Library?



- **Book gifting program launched by Dolly Parton's Dollywood Foundation in 1995**
- High quality, age appropriate books mailed to homes of children 0-5
- FREE to all enrolled children in community
- Committee of experts select the books
- Some available in Spanish, Braille, audio



The Cost



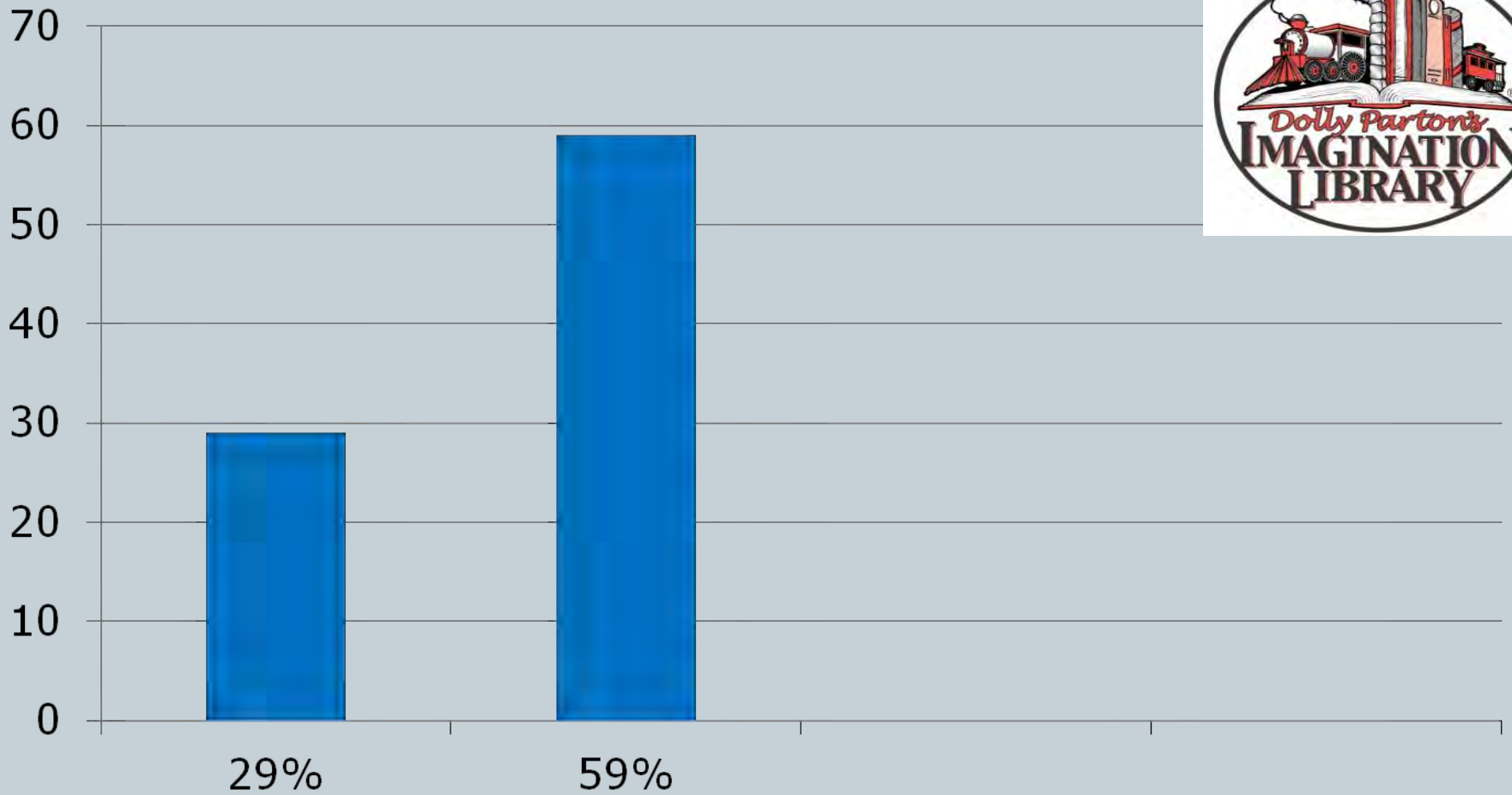
\$2.10/child/month
\$25/child/year



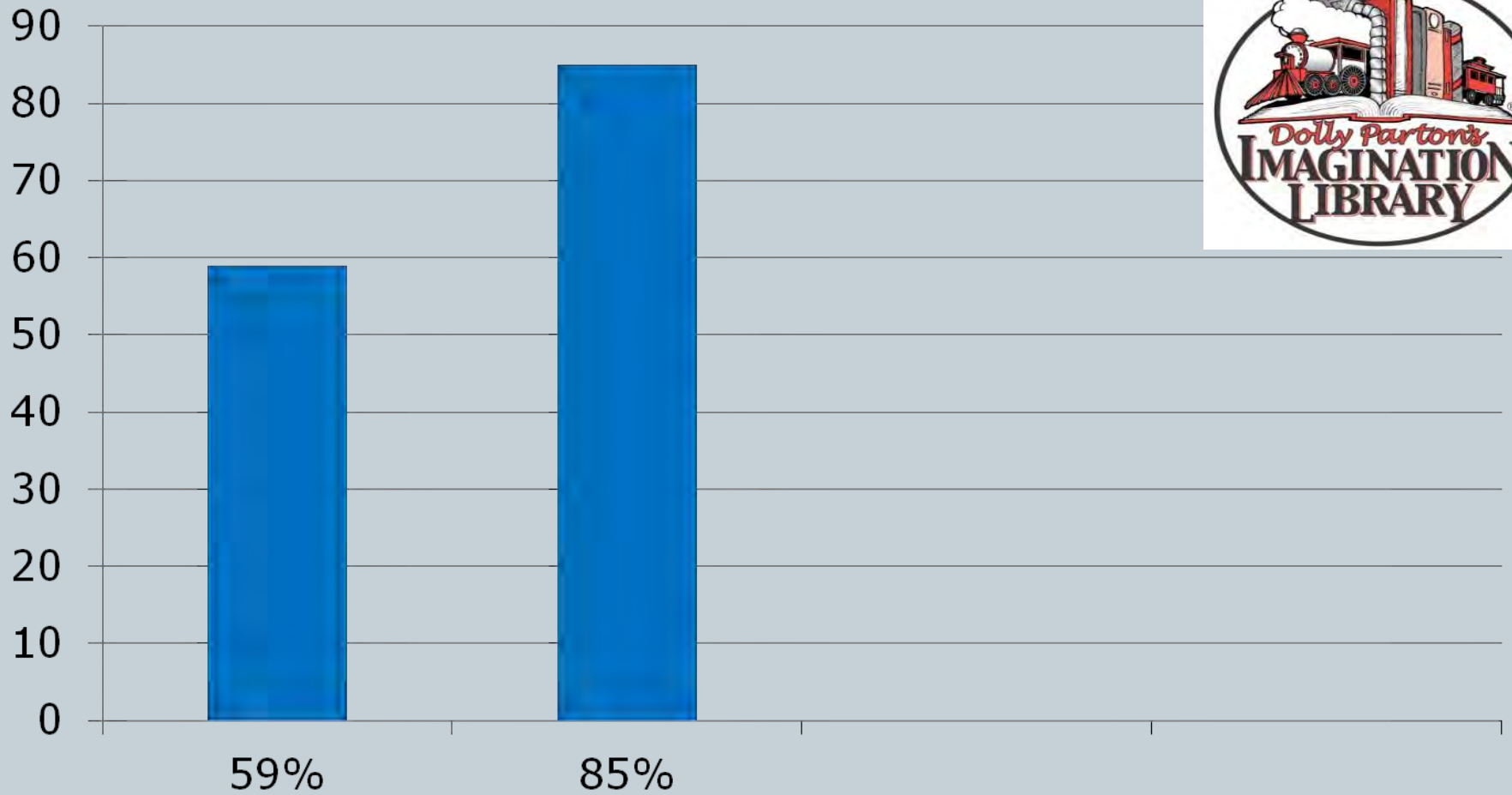
How Do We Know It's Working?



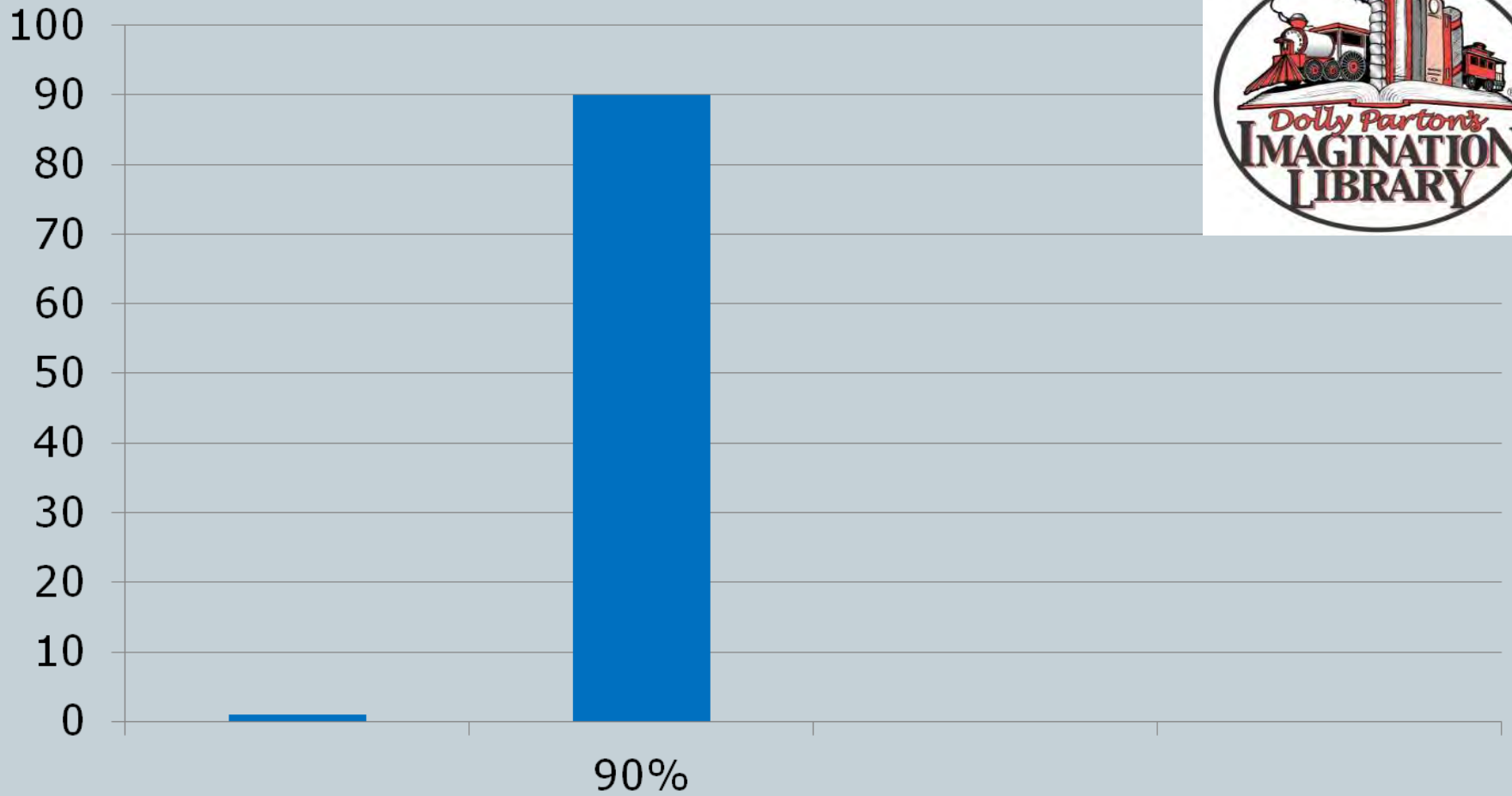
Parents Reading to Children Daily



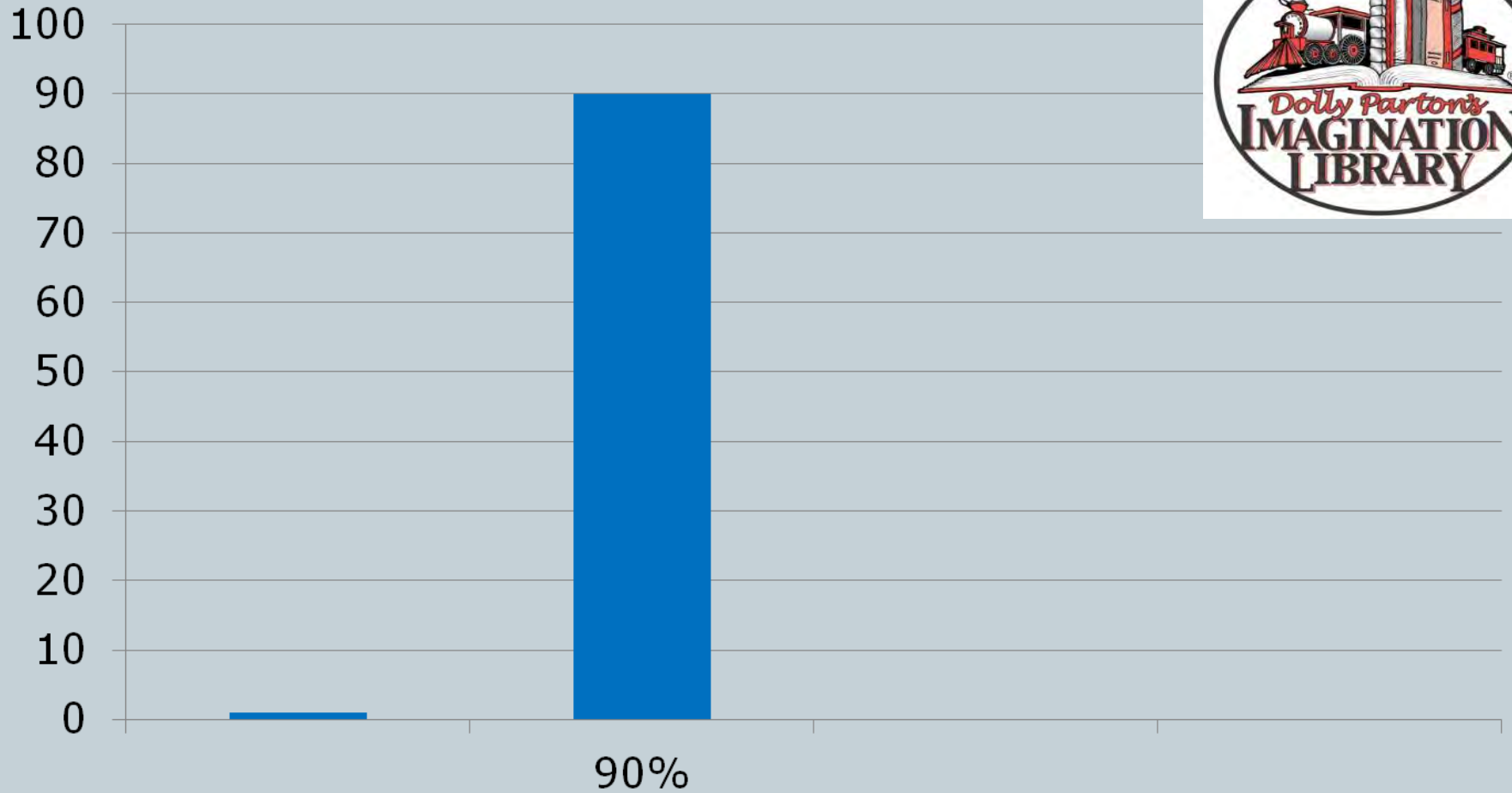
Reading 3 times a week or more



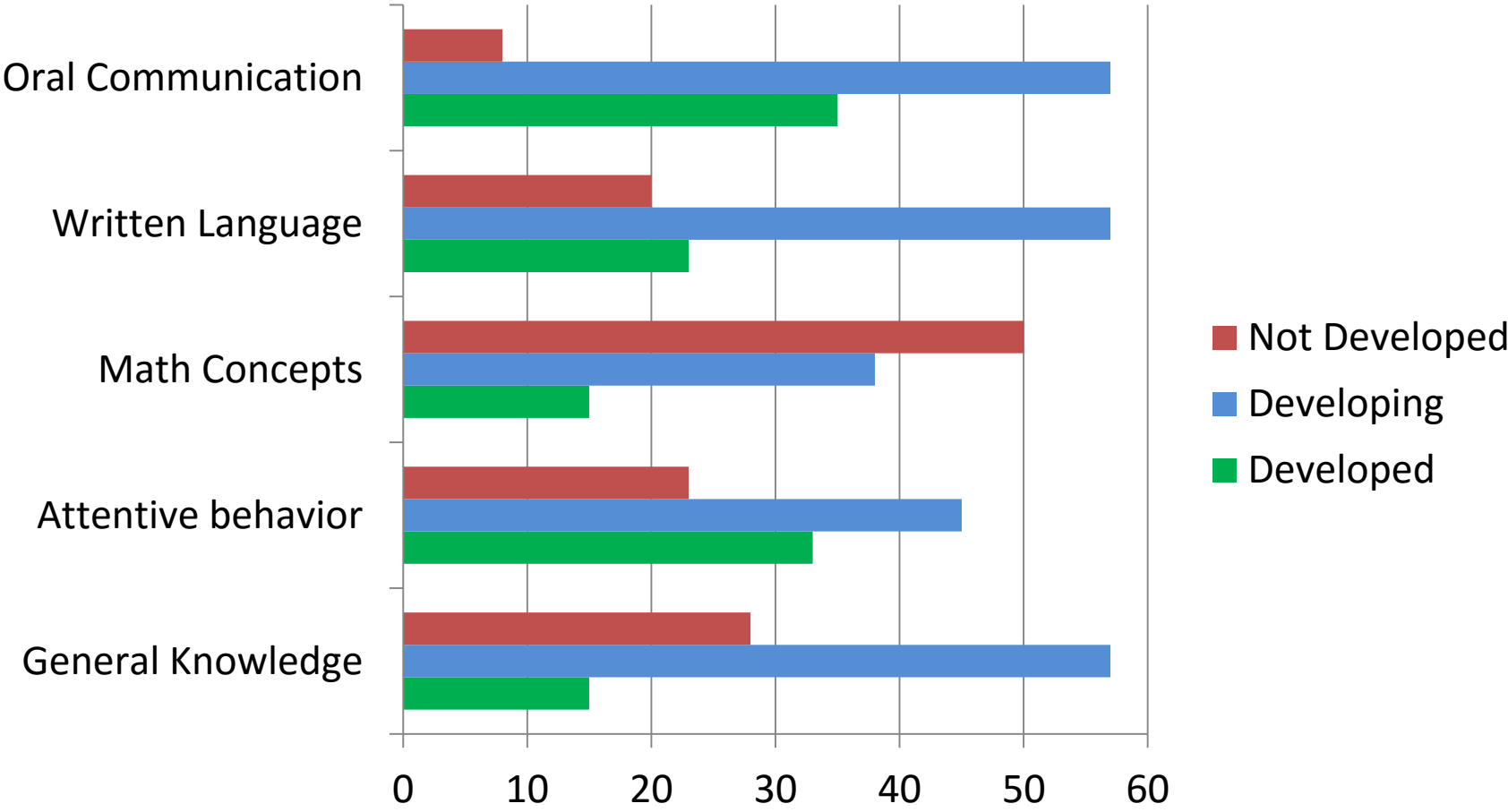
Children asking to be read to



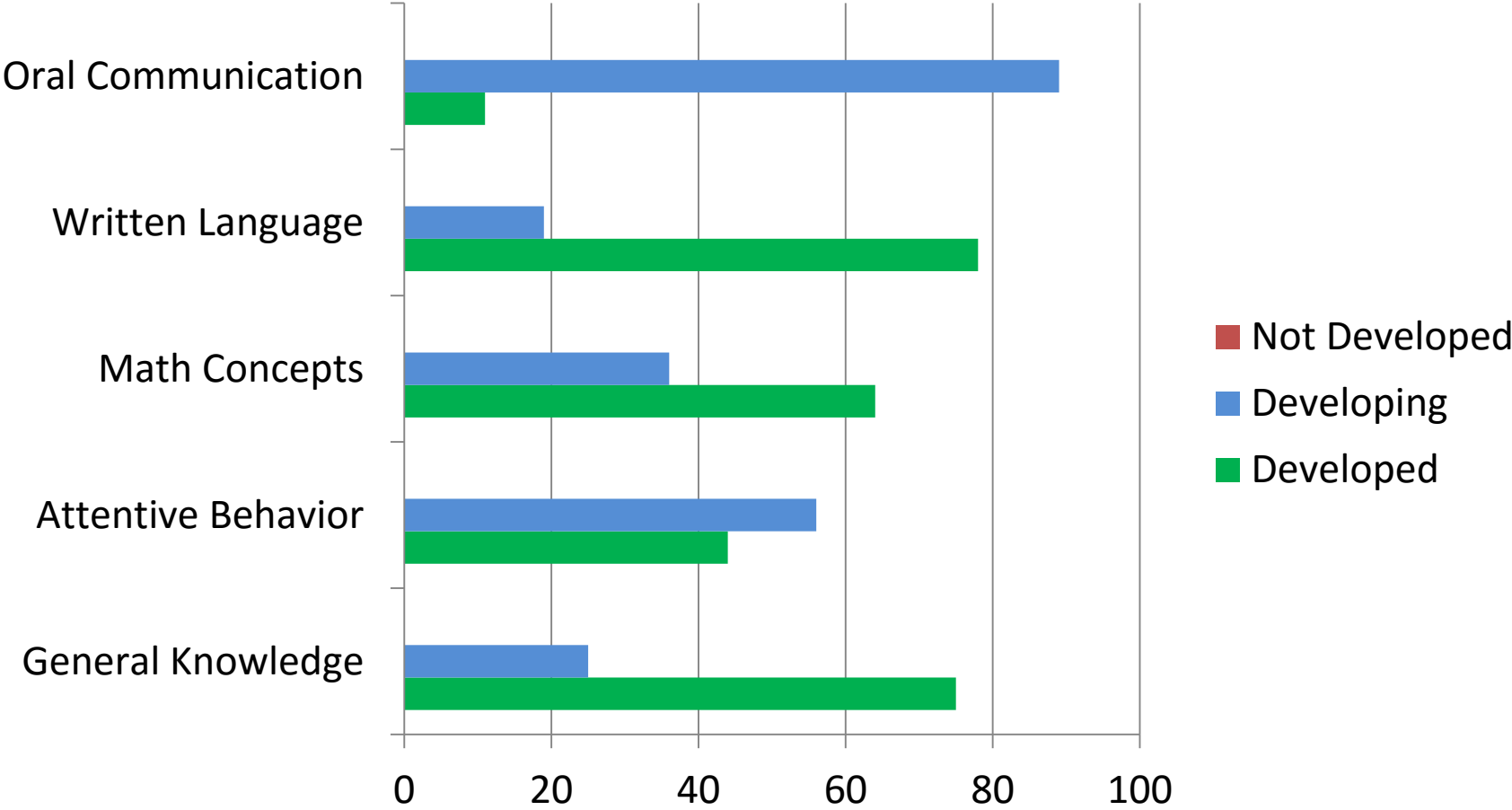
Time Children Spent Alone with Books



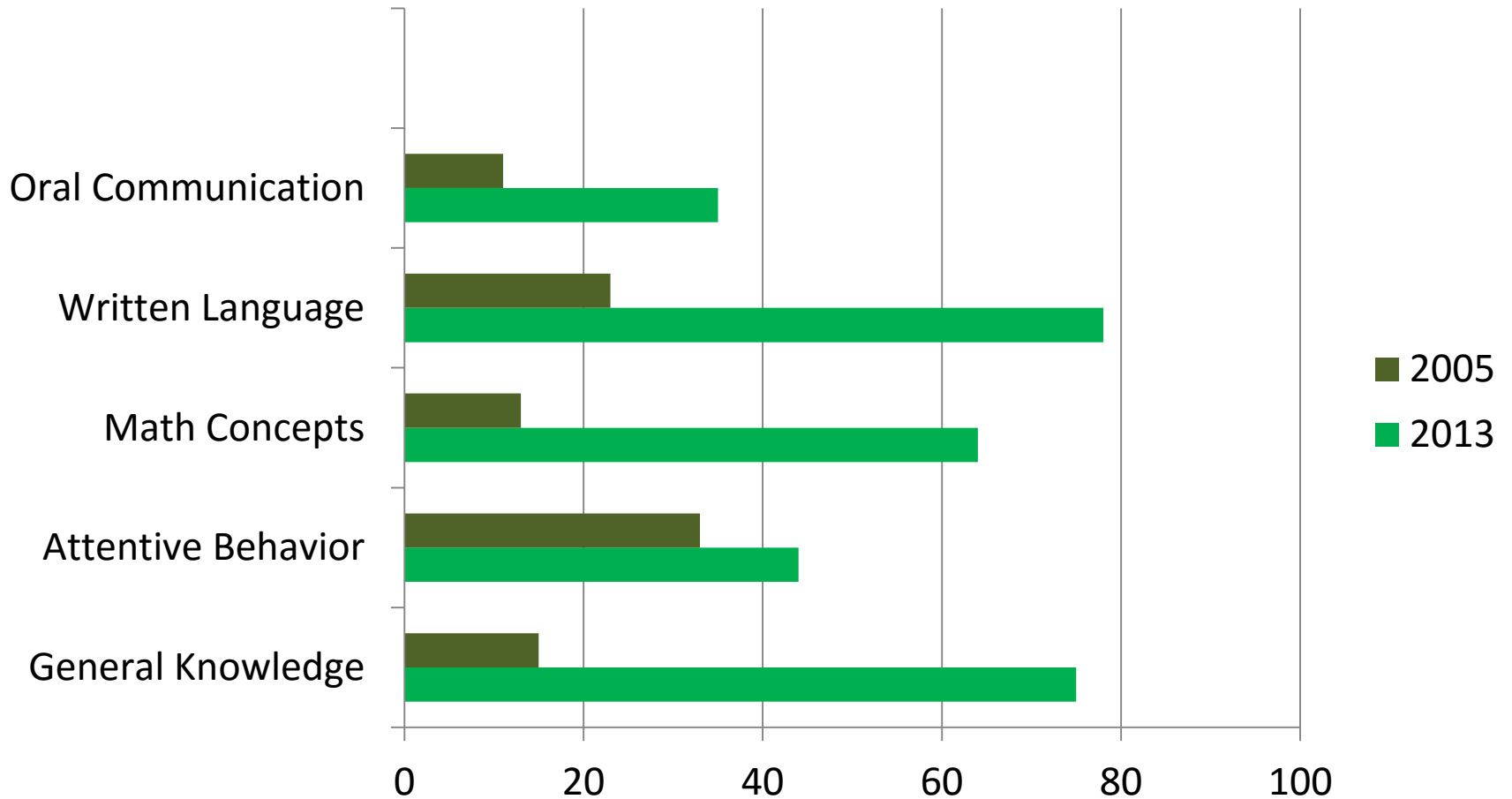
Des Arc Kindergarten Scores 2005



Des Arc Kindergarten Scores 2013



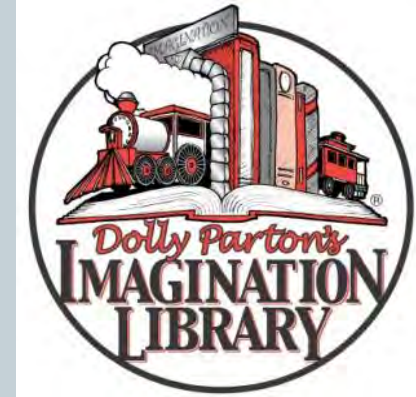
Des Arc Kindergarten Scores 2005 vs 2013: Developed



The Benefit?



- 20 year study
- 27 countries
- 70,000 cases

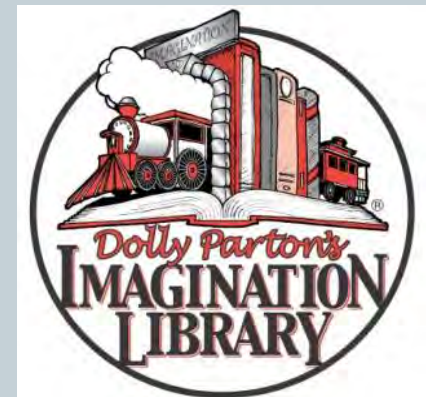


- “In homes that have many books, children average 3 more years of schooling than the children in homes without books.”
- As few as 20 books = higher levels of education

Research reveals that because of Imagination Library:



- **“Children develop a comfort level with books early and begin to view books and themselves differently; they begin to see themselves as readers.”**



Resources Saved

- < special education
- < grade retention
- < drug use
- < criminal justice system
- < teen pregnancy
- < welfare use

Resources Produced

- > IQ
- > graduation rates
- > college attendance
- > rates of employment
- > lifetime earnings
- > home ownership
- > tax revenue

ROI: \$7-\$9: \$1

Dolly Parton's Imagination Library Arkansas



- Over 90,000 books were mailed to Arkansas preschoolers in 2013
- In 2014 over 110,000 books were mailed to the homes and hands of Arkansas preschoolers
- In 2015 the number of books received by Arkansas children increased by 30%
- From 2005-2015 over half a million books were delivered to Arkansas families at no cost to the families.
- Local champions serve over 15,000 preschool children monthly in 50 counties.



Joint project of the
Pangburn Hero Within
Club and Sr. Beta Club.

Launched April 1st, 2016

Available to children
living in the Pangburn
School District and
children of faculty/staff
members.

At present we have 30
children who should
have received their first
book this month.



Pangburn High School students at
the 2015 Arkansas Imagination
Library Summit

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