Activity 1: Forming Good Data Questions

Part I: Forming good data analysis questions. The questions below were generated by a group of stakeholders from both early intervention and preschool special education to improve their programs. What are the strengths and weaknesses of each of these questions given the criteria that we just examined?

- Important to districts, programs, families and others
- Well defined
- Clear expectations for what you expect to find
- Clear which elements in your data will be needed

Question	Who is the audience for this question?	Strengths/weakness of how it is written.	How could you rewrite it to be better?
* Who has better outcor	mes?		
* What are they doing differently in program where more children eat age expectations in knowledge and skills?	exit		
* How does the percent children exiting at age expectations in knowl and skills differ across subgroups like race ethnicity and average functioning at entry?	edge		
* Why don't more family report that early intervention helps their help their child developed and learn?	m		





Part II: Generating key questions. Now, either write your own <u>key</u> question(s), or take one or more of the revised questions from Part I, that you would like to answer about what affects outcomes. For each question, fill-in who the audience would be and what kinds of data variables you would need to pull together to be able to answer it.

Question	Who is the audience for this question?	What data variables/elements would you need?











Activity 2: Looking at Data

Let's look at data for a cooperative. Within the area that this cooperative serves, it is divided into 6 districts and serves a total of 151 children. All the districts are committed to program improvement and would like to look at their outcomes data to see how kids are doing on child outcomes and inform their program improvement activities. The evidence we will use is child outcomes data for the cooperative and districts. Inference will be related to comparisons between districts to the cooperative and each other. Action will be the identification of districts that may be performing higher or lower than others on child outcomes.

First, let's look at the individual data for one of the districts, below. Think about how you could use this data to inform program improvement activities? How would you need to group or categorize the data for it to be more informative across districts?

As you review the data in this activity consider the following questions and record your thoughts.

Qu	estion	Corresponding Chart/Graph	Notes
1.	How would you need to group or categorize the data for it to be more informative across districts? a. How could you simplify family income for comparing across districts and outcomes?	Chart 1	
2.	How is the cooperative performing on child outcomes? a. Is it the same across all the outcomes and summary statements? If not, how does it differ?	Graphs 1-2	
3.	Which districts have the best child outcomes? Which have the lowest? a. Is it the same across all the outcomes and summary statements? If not, how does it differ?	Graphs 3-8	
4.	What additional data or information would you like to see?	All information presented so far	





Chart 1. Individual Child Outcomes Data for District 2

									Outcome1	Outcome 2				
Child ID	District	Race/ Ethnicity		Outcome 2 Entry	Entry	Exit	Exit	Exit	Progress Category	Progress Category	Progress Category	Family Income	Disability	Language
10189	2	WHT	5	4	4	3	4	3	b	b	b	\$22,000	Dev Delay	English
10403	2	HIS	4	4	5	2	2	1	b	b	a	\$19,000	Dev Delay	DLL
10919	2	HIS	5	4	3	6	6	6	d	d	d	\$21,000	Dev Delay	DLL
11038	2	HIS	6	7	6	6	6	6	e	d	e	\$25,000	Speech- Lang Only	DLL
12034	2	HIS	3	3	2	6	6	6	d	d	d	\$56,000	Dev Delay	English
12034	2	WHT	3	3	2	6	6	5	d	d	d	\$31,000	Dev Delay	English
12040	2	WHT	5	5	5	5	5	5	b	b	b	\$62,000	ASD	English
12040	2	WHT	5	5	5	5	5	5	b	b	b	\$30,000	Dev Delay	English
13130	2	HIS	2	3	1	3	2	2	С	b	С	\$23,000	ASD	DLL
13965	2	HIS	4	2	2	3	3	3	b	С	С	\$19,000	Dev Delay	English
15272	2	BLK	3	7	6	5	7	7	С	d	е	\$21,000	Dev Delay	DLL
15494	2	BLK	1	2	1	1	1	1	a	a	a	\$19,000	ASD	DLL
15705	2	BLK	7	3	7	6	7	7	e	d	e	\$29,000	Speech- Lang Only	DLL
15708	2	BLK	4	3	7	6	6	7	d	d	e	\$27,000	Speech- Lang Only	English
15838	2	BLK	7	3	5	6	5	5	e	С	b	\$28,000	Dev Delay	English
16646	2	MULTI	6	4	5	6	5	5	е	С	b	\$65,000	Dev Delay	English
16913	2	WHT	3	3	3	6	6	7	d	d	d	\$75,000	Speech- Lang Only	English
17028	2	MULTI	4	4	4	7	6	6	d	d	d	\$67,000	Dev Delay	English
17437	2	WHT	3	4	4	6	7	6	d	d	d	\$21,000	Dev Delay	English

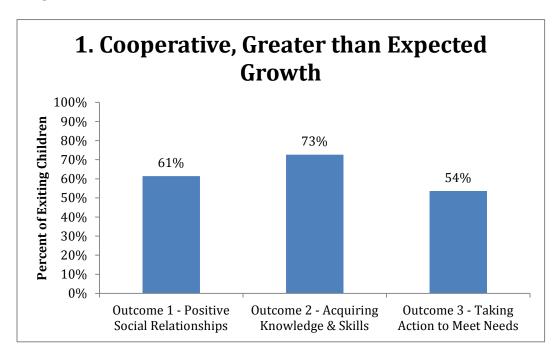
BLK= Black/African American HIS= Hispanic/Latino MULTI= Multi-racial (2 or more) WHT= White DLL= Dual Language Learner

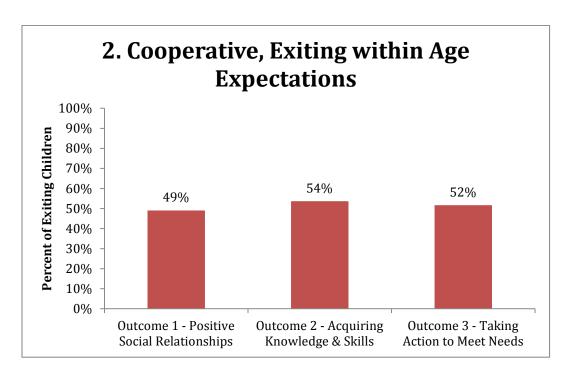




Next, let's look at the overall child outcomes data across the 6 districts for the cooperative. How is the cooperative doing on child outcomes? How is each district doing compared to the cooperative? What patterns do you notice in the child outcomes?

Cooperative Data Overview

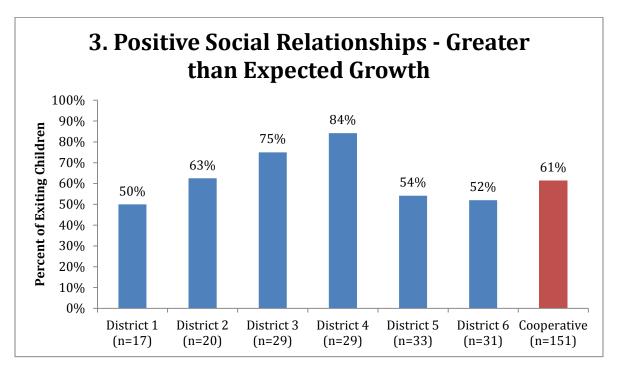


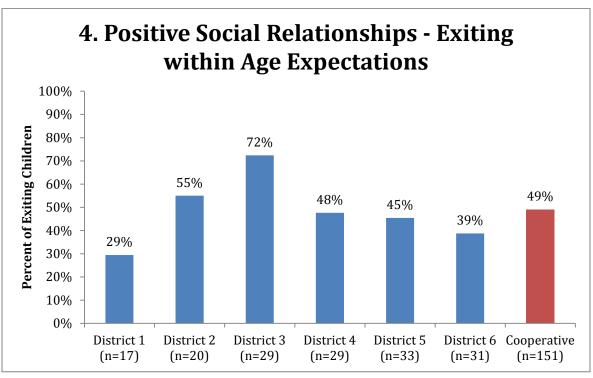






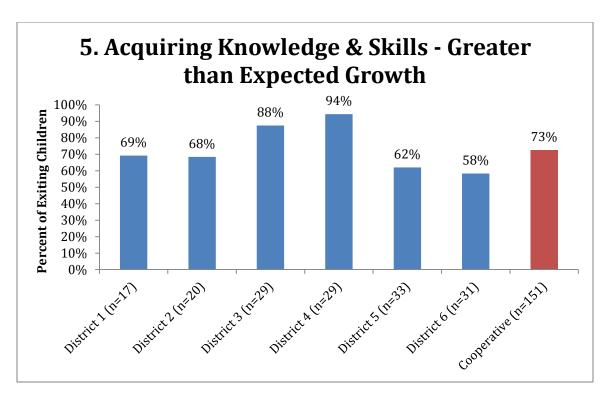
Comparing Across Districts

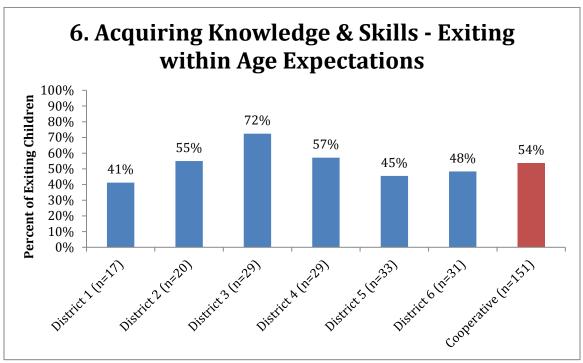






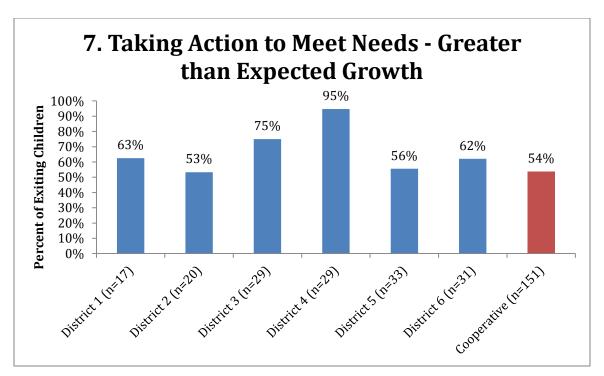


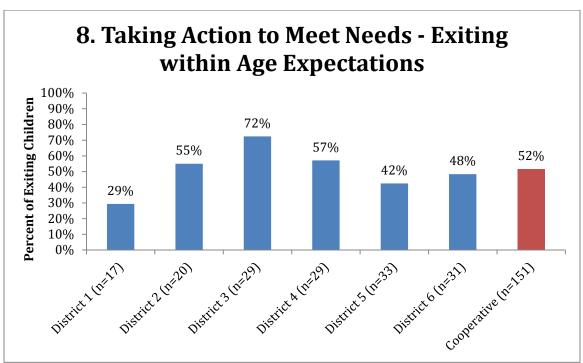










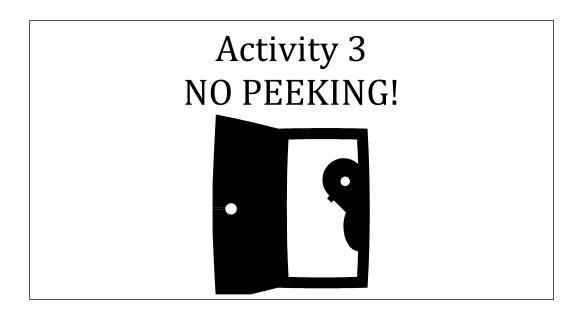
















Activity 3: Comparing Child Outcomes by District Characteristics

There are six districts in cooperative but each district operates pretty independently with varying curriculum and service approaches. Therefore, we will next consider how district characteristics may relate to differences in child outcomes. The <u>evidence</u> we will use is child outcomes data for the districts examined by several district characteristics. <u>Inference</u> will be related to comparisons between these different districts characteristics and how they relate to differences in child outcomes. <u>Action</u> will be the identification of factors that may be contributing differences in districts' child outcomes and potential improvement strategies.

As you review the data in this activity consider the following questions and record your

thoughts.

Question	Corresponding Chart/Graph	Notes
How do child outcomes differ by a. Percent served b. Income level c. Service setting d. Curriculum type	Chart 1 Graphs 7-14	
 2. How you could use this data to inform program improvement activities? a. Would the same strategy work for all the districts? b. If not, would there need to be different strategies, and what might those be? 	Chart 1 Graphs 7-14	
3. What additional data or information would you like to see?	All information presented so far	





Chart 2. Overview of Cooperative District Data

District	Number of Exiters	% Served	% Low Income	% Minority	% DLL	% Speech/ Lang Only	0C1 SS1	OC1 SS2	OC2 SS1	OC2 SS2	0C3 SS1	OC3 SS2	Service Location	Curriculum
District 1	17	3%	71%	76%	47%	12%	50%	29%	69%	41%	63%	29%	Special Ed Classrooms	Tools of the Mind
District 2	20	7%	75%	70%	35%	20%	63%	55%	68%	55%	53%	55%	State PreK (not universal)	Creative Curriculum
District 3	29	12%	7%	14%	3%	52%	75%	72%	88%	72%	75%	72%	State PreK (not universal)	Positive Behavioral Supports
District 4	21	10%	5%	5%	5%	48%	84%	48%	94%	57%	95%	57%	Itinerant Services	N/A
District 5	33	8%	24%	48%	18%	36%	54%	45%	62%	45%	56%	42%	Itinerant Services	N/A
District 6	31	4%	26%	42%	16%	26%	52%	39%	58%	48%	62%	48%	Special Ed Classrooms	Ready to Read

OC1 = Outcome 1, positive social relationships

OC2 = Outcome 2, Acquiring Knowledge & Skills

OC3 = Outcome 3, Taking Action to Meet Needs

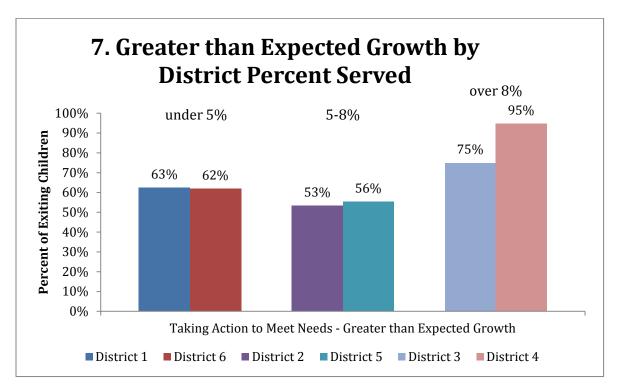
SS1 = Summary statement 1, Greater than Expected Growth

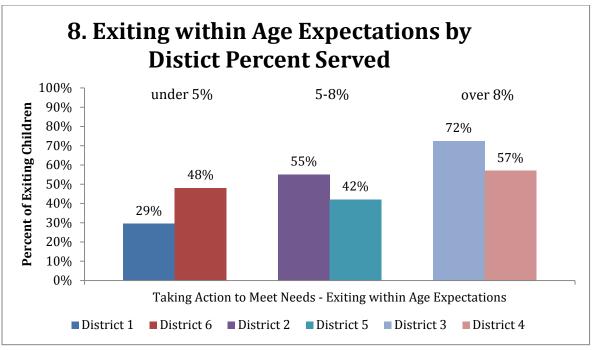
SS2= Summary Statement 2, Exiting within Age Expectations





By Percent Served

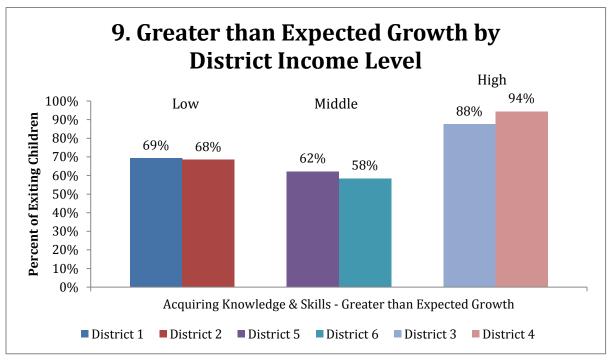


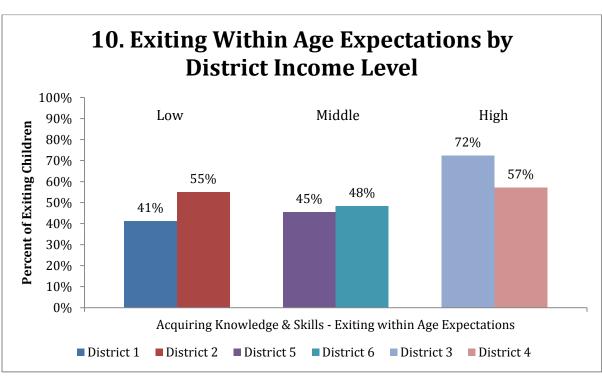






By Income Level

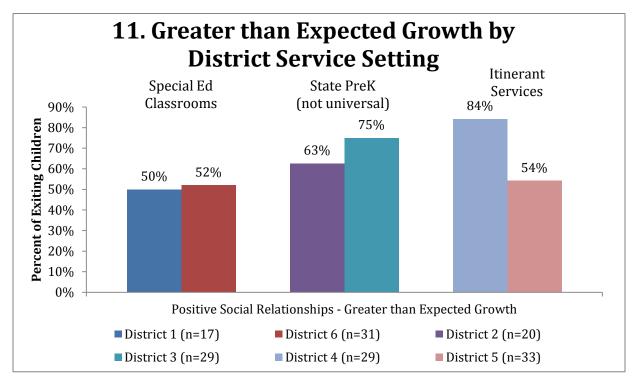


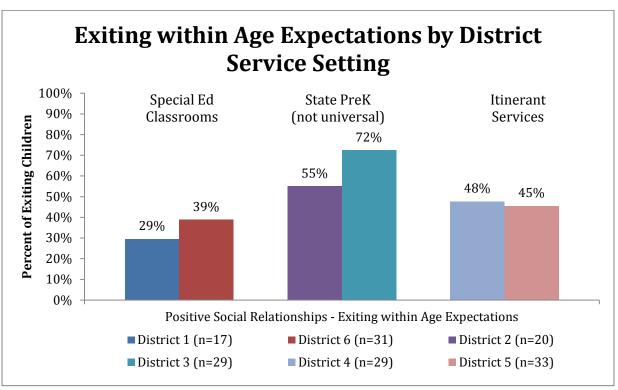






By Service Setting

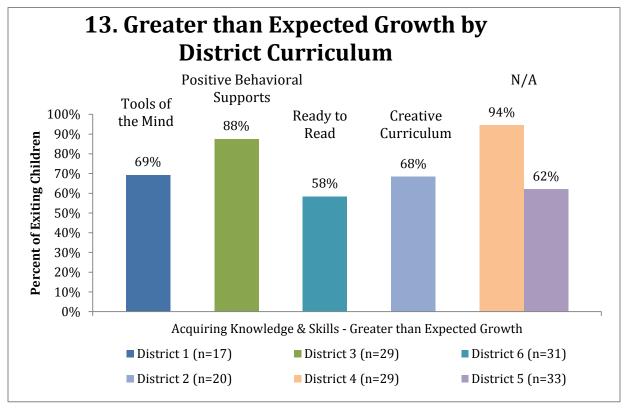


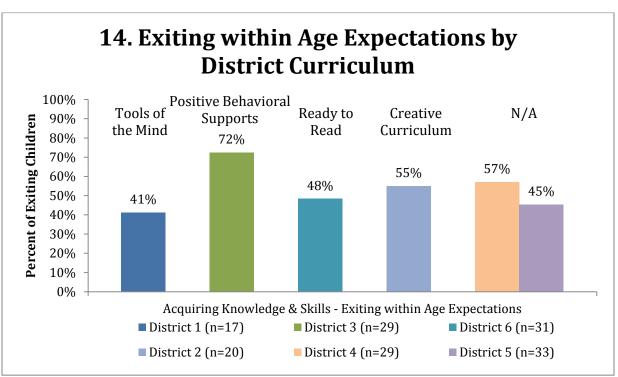






By Curriculum Type













Activity 4 NO PEEKING!





DEC 2014 20

Activity 4: Comparing Child Outcomes By Child Characteristics

To gain more information about which children are experiencing better outcomes, we will now compare the child outcomes data for each district by several subgroups based upon child/family characteristics. The evidence we will use is child outcomes data for the districts examined by several child and family characteristics. <u>Inference</u> will be related to comparisons between these different child/family characteristics and how they relate to differences in child outcomes within and across districts. Action will be the identification of factors that may be contributing differences in districts' child outcomes and potential improvement strategies.

As you review the data in this activity consider the following questions and record your

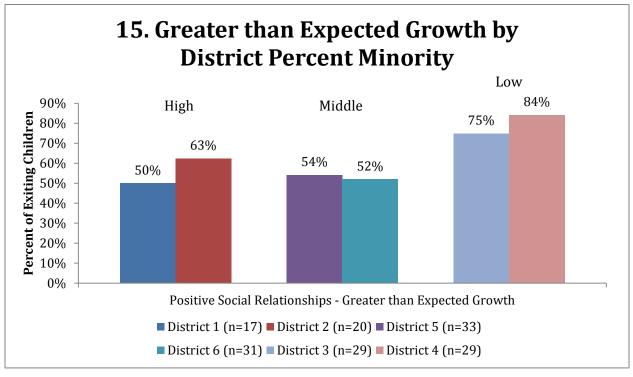
thoughts.

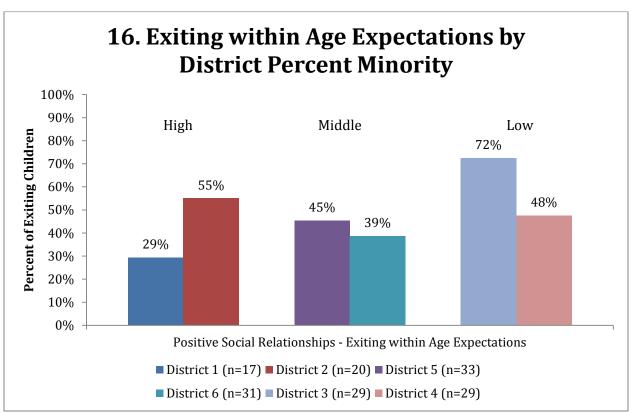
Question	Corresponding Chart/Graph	Notes
 How do child outcomes differ by a. Race/ethnicity b. Language c. Disability type 	Graphs 15-16 Graphs 17-18 Graphs 19-20	
 2. How you could use this data to inform program improvement activities? a. Would the same strategy work for all the districts? b. If not, would there need to be different strategies, and what might those be? 	Graphs 15-20	
3. What other characteristics or information would you like to know about children or families? About practices?	All information presented	





By Race/Ethnicity (percent minority)

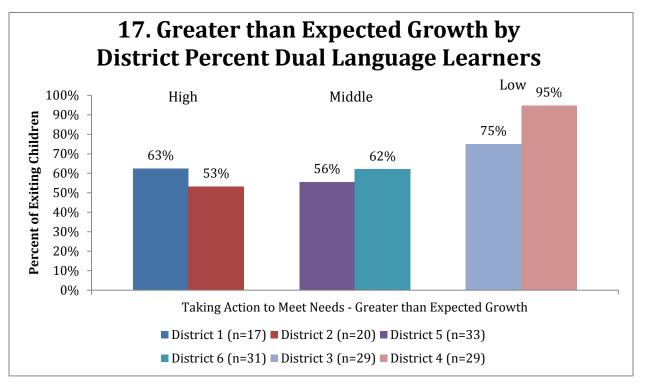


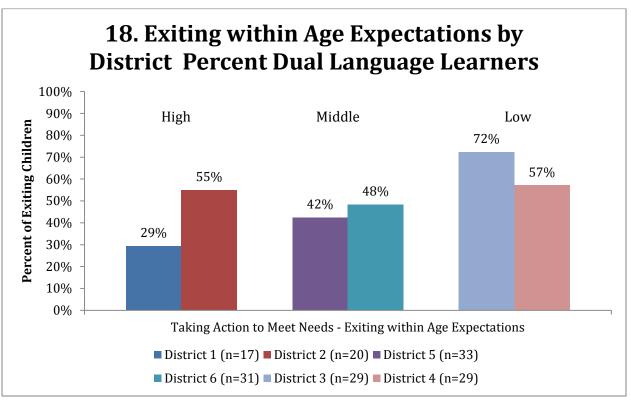






By Language (percent Dual Language Learners)









By Disability Type (percent Speech/Language Only)

