

Table 1. Summary of Relationships between Weekly Program Use Quartiles and RISE Math Proficiency & SGP Scores in 2018-2019 by Vendor

Vendor	Logistic Regression for RISE Math Proficiency				Linear Regression for RISE SGP Scores			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ALEKS	—	ns	+	+	—	+	+	+
DreamBox	ns	+	ns	+	ns	+	ns	+
i-Ready	—	—	ns	+	—	—	—	+
Imagine Math	—	—	ns	+	—	—	ns	+
Mathspace	ns	ns	ns	+	—	ns	ns	+
ST Math	—	—	ns	ns	—	—	ns	ns

(ns) Non-significant and negative relationship (n = 11)
 ns Non-significant and positive relationship (n = 6)
 — Statistically significant and negative relationship (n = 16)
 + Statistically significant and positive relationship (n = 15)

Table 2. Summary of Relationships between Weekly Program Use Quartiles and RISE Math Proficiency & Theta Scores in 2020-2021 by Vendor

Vendor	Logistic Regression for RISE Math Proficiency				Linear Regression for RISE Theta Scores			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
ALEKS	—	+	+	+	—	ns	+	+
DreamBox	—	—	+	+	—	—	+	+
i-Ready	—	ns	+	+	—	—	+	+
Imagine Math	—	—	—	+	—	—	—	+
Mathspace	ns	ns	ns	+	ns	ns	ns	+
ST Math	—	—	—	+	—	—	—	+

(ns) Non-significant and negative relationship (n = 3)
 ns Non-significant and positive relationship (n = 5)
 — Statistically significant and negative relationship (n = 21)
 + Statistically significant and positive relationship (n = 19)

Table 3. User Sample Sizes and Cutoffs for Weekly Usage Quartiles in 2018-2019 by Vendor

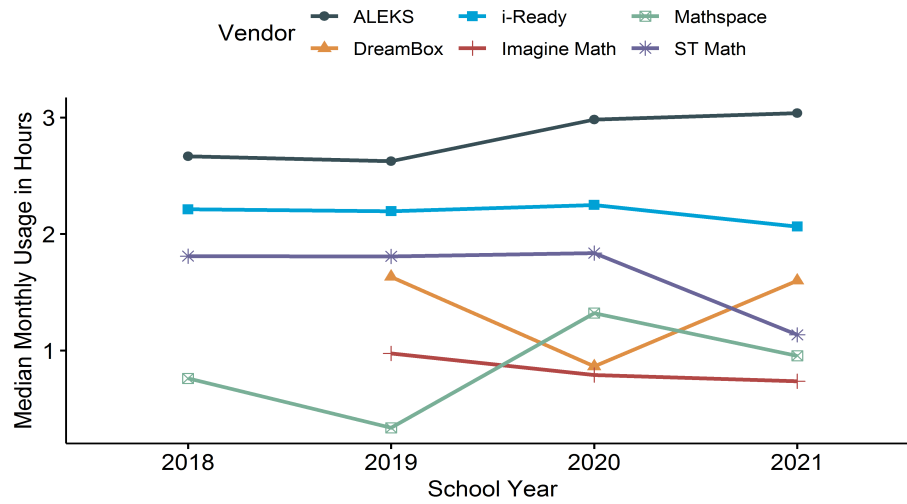
Quartile	ALEKS (n = 58,858)	DreamBox (n = 475)	i-Ready (n = 16,294)	Imagine Math (n = 14,510)	Mathspace (n = 2,105)	ST Math (n = 11,764)
Q1	< 22 mins	< 18 mins	< 21 mins	< 14 mins	< 6 mins	< 17 mins
Q2	22 to 41 mins	18 to 30 mins	21 to 33 mins	14 to 23 mins	6 to 12 mins	18 to 31 mins
Q3	41 to 70 mins	30 to 49 mins	33 to 46 mins	23 to 37 mins	12 to 33 mins	31 to 50 mins
Q4	> 70 mins	> 49 mins	> 46 mins	> 37 mins	> 33 mins	> 50 mins

Table 4. User Sample Sizes and Cutoffs for Weekly Usage Quartiles in 2020-2021 by Vendor

Quartile	ALEKS (n = 46,942)	DreamBox (n = 8,868)	i-Ready (n = 25,390)	Imagine Math (n = 17,734)	Mathspace (n = 7,046)	ST Math (n = 21,818)
Q1	< 23 mins	< 8 mins	< 20 mins	< 4 mins	< 4 mins	< 7 mins
Q2	23 to 47 mins	8 to 25 mins	20 to 31 mins	4 to 11 mins	4 to 15 mins	7 to 20 mins
Q3	48 to 84 mins	26 to 46 mins	32 to 44 mins	12 to 24 mins	16 to 34 mins	21 to 40 mins
Q4	> 84 mins	> 46 mins	> 44 mins	> 24 mins	> 34 mins	> 40 mins

Note. Sample sizes reflect the number of users for each product after propensity score matching and filtering (e.g., to remove students without achievement data).

Figure 1. Median Math Software Usage (in Hours per Month) by Year and Vendor



Note. The median monthly usage is preferred over the mean as a measure of central tendency because of positively skewed usage.