

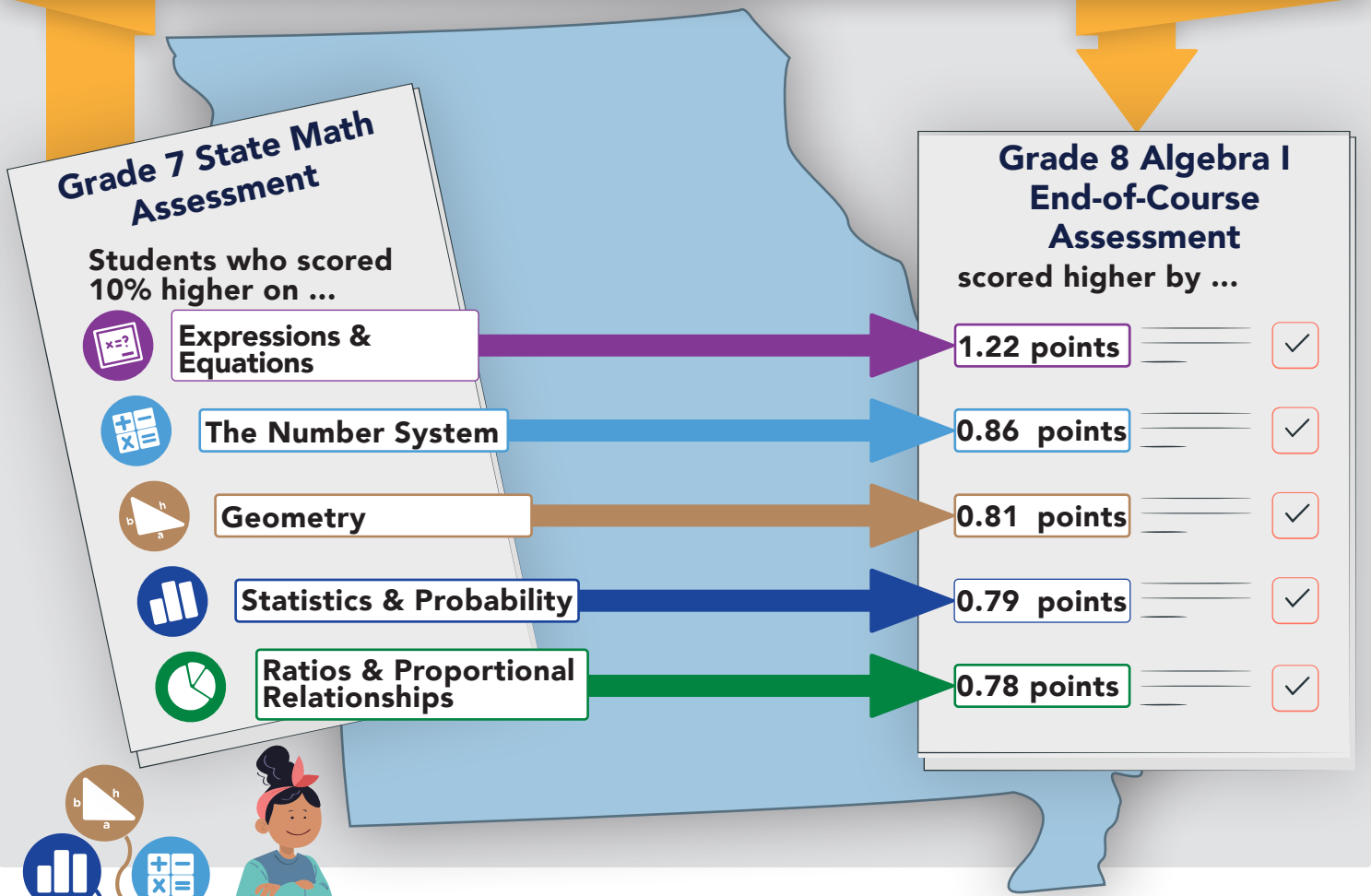
An Infographic From Regional Educational Laboratory Central at IES

Which math domains are associated with Algebra I success?

Educators in Missouri were interested in whether results on their already required grade 7 state math assessment could be used as an alternative to an additional Algebra I placement exam. To inform strategies that address this challenge, Regional Educational Laboratory Central examined student knowledge and skills in five grade 7 math domains to identify which domains were associated with student achievement in Algebra I in grade 8.



Students who scored higher in grade 7 state math assessment domains tended to score higher on the grade 8 Algebra I End-of-Course Assessment. The point increase in grade 8 Algebra I scores associated with students who scored 10% higher in each grade 7 math domain is shown below.



All five key math domains were individually associated with success in Algebra I. Findings suggest that educators might consider all five key math domain scores on grade 7 state math assessments, in addition to other factors, to determine if students are ready to take Algebra I in grade 8.

Please read our full report here: <https://ies.ed.gov/ncee/edlabs/projects/project.asp?projectID=4575>