

**ZMATH 2016e.00512**

**Glover, Anna**

**Exploring misconceptions with rich tasks.**

Ohio J. Sch. Math. 73, 43-49 (2016).

Summary: In the paper, the author investigates Points on Line Segment, a rich task available on the Stella's Stunners section of the Ohio Resource Center website. The task was posed to 11 high school students in the greater Columbus area. The author advocates increased use of rich tasks in the secondary school curriculum, discussing ratio and fraction misconceptions that upper level students encountered as they solved the problem.

*Classification:* D70 F40 F80 G70

*Keywords:* misconceptions; student errors; line segments; fractions; ratio; proportion; proportional thinking; distance; lower secondary; upper secondary; problem solving