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Gender differences and the effect of facing harder competition

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Highlights

• Gender differences in competition exist in Malaysian public schools

Males choose to enter competition more than females do in a math task

• When students face harder competitors, males respond by lowering performance

• Females' performance does not vary significantly by level of competition

Abstract:

Gender differences in competition have been demonstrated in a variety of contexts, yet it

remains unclear how people respond to competitors they perceive to be hard or easy, and whether

gender differences exist in this response. I run an experiment in eighteen public high school

classrooms to study the effect of competing in a math task against different levels of competitors.

I exploit natural sorting within grade levels in Malaysian public schools to randomly assign

competitors of different perceived difficulty levels. Using a standard competition measure, males

are significantly more competitive than females. However, when students face harder competitors,

males respond by lowering performance while the performance of females does not vary

significantly by level of competition.

Keywords: gender differences; competition; gender performance; tournament; piece-rate;

information

JEL Codes: I20, J24, J16.

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