

Maths Self-Efficacy

Maths self-efficacy is a student's confidence about being able to answer particular maths questions. We at NZCER are researching how students' self-efficacy and achievement are related. We will be sharing what we learn on the project's webpage:

<http://www.nzcer.org.nz/research/maths-self-efficacy-and-achievement>

If you select the PAT: Mathematics with Maths Self-Efficacy option, your students will be able to answer four quick questions about how confident they feel about solving problems like those in PAT: Mathematics. (This option is available for all online PAT: Mathematics tests, excluding Test 1A and the computer adaptive option.)

The questions look like this:

Have a *quick* look at this problem and think about whether you could work it out.

What does the 3 stand for in 392?

A) 3
B) 30
C) 300
D) 3 000

Ex1 Do you think you could solve the problem?

I definitely couldn't
 I might not be able to
 I might be able to
 I definitely could

Most students take less than 5 minutes to respond to these questions. Before the self-efficacy questions, students will be shown a practice example which we ask that you read aloud to them. Students can skip the self-efficacy questions if they choose to. When students have finished these self-efficacy questions, they will be directed to wait until the teacher asks them to start the maths questions, just as they are with the regular online PAT: Mathematics.

Your students answering these quick questions will help us find out if there are different patterns for different student characteristics, such as gender and age. It will also help our work on developing useful ways of reporting this information to teachers in the future.