

A

## CourseKata 2023 Dataset

11 institutions



...

45 classrooms



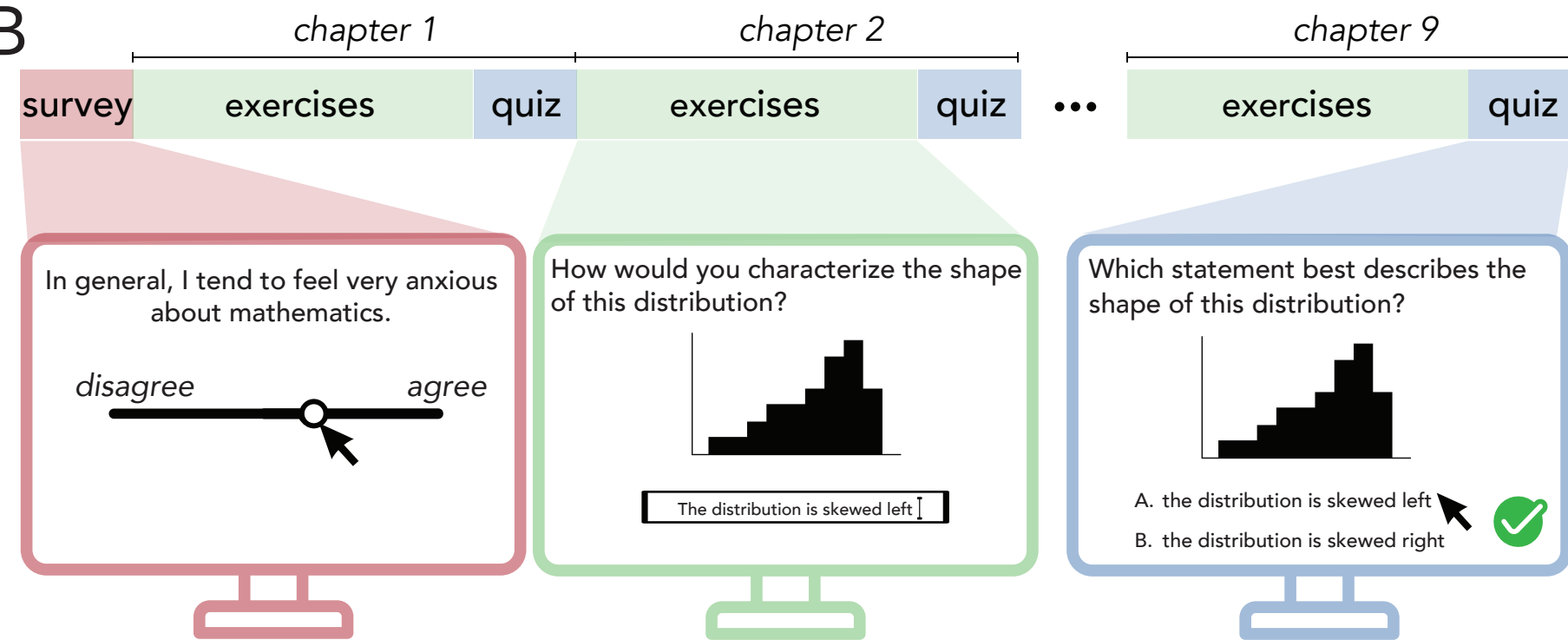
...

1,306 students



...

B



C

## example survey item

In general, I tend to feel very **anxious about math**

I think this class is going to be **too stressful for me**.

Have [I] had experience with **computer programming before**?

How do [I] feel about **using R to analyze data**?

I look forward to **learning more about math**, statistics, or data science.

I am **confident I can learn** the material in this class.

What I'm going to learn in this class will be **useful in the future**.

## target construct

**math anxiety**

**stress expectation**

**programming experience**

**programming attitude**

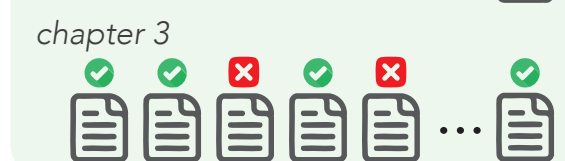
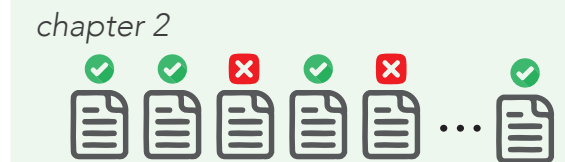
**interest in math**

**self-efficacy**

**expected value**

## engagement

**proportion pages completed**



## learning

**quiz score**

chapter 1  
**0.87**

chapter 2  
**0.74**

chapter 3  
**0.81**