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# Which One Doesn't Belong?: A Shapes Book, Teacher's Guide With Student Book



## Synopsis

Every colorful page of Christopher Danielson's children's picture book, *Which One Doesn't Belong?*, contains a thoughtfully designed set of four shapes. Each of the shapes can be a correct answer to the question *Which one doesn't belong?* Because all their answers are right answers, students naturally shift their focus to justifications and arguments based on the shapes' geometric properties. In the companion teacher's guide, Danielson shows how to facilitate rich discussions and teach mathematical argumentation using *Which One Doesn't Belong?* He models how to listen closely and respectfully to students' ideas about shapes. Danielson synthesizes research about how children learn geometry, discusses the role of geometry in the mathematics curriculum, and gives plenty of practical advice about different ways to implement *Which One Doesn't Belong?* in classrooms. He also discusses the mathematical ideas likely to emerge on each page and drawing from his direct experience using *Which One Doesn't Belong?* at several different grade levels helps teachers anticipate and think about students' likely answers. Most curricula treat geometry as little more than vocabulary lessons. *Which One Doesn't Belong?* and its accompanying guide are powerful, flexible resources teachers can use to provoke lively discussions and deep learning about shapes with students of all ages.

## Book Information

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Books for Grown-Ups

Age Range: 8 - 12 years

Grade Level: Kindergarten - 12

## Customer Reviews

Open an amazing world of mathematical possibility to anyone and everyone. Even those in your life who proclaim themselves math-phobic will pick up this book, think about it, and enjoy, and then return to it repeatedly! Buy one for yourself, your friends, your children, your children's teachers... basically just buy a bunch and share them widely!

I would buy this book for everyone on the planet if I could. It will change the way you view math, talk about math, and share math with others. I can't recommend it highly enough. Educators, parents, kids, anyone with a pulse will love this book.

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