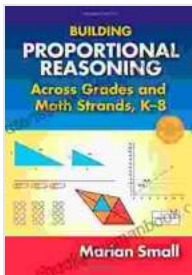


Building Proportional Reasoning Across Grades and Math Strands

Proportional reasoning is a key mathematical concept that students need to master in order to succeed in higher-level mathematics and science courses. Proportional reasoning is the ability to understand and apply the relationship between two quantities that are changing in relation to each other.



Building Proportional Reasoning Across Grades and Math Strands, K–8 by Marian Small

★★★★☆ 4.7 out of 5

Language : English
File size : 4220 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 128 pages



Students begin to develop proportional reasoning in the early grades, when they learn about simple ratios and proportions. As they progress through the grades, they learn more complex proportional relationships, such as those involving rates, percents, and scale factors.

There are many different ways to build proportional reasoning across grades and math strands. One effective way is to use hands-on activities that allow students to explore proportional relationships in a concrete way.

Here are some examples of activities that you can use in your classroom to build proportional reasoning:

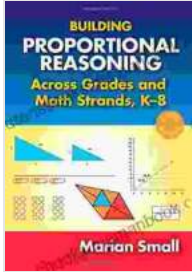
- **Ratio Tiles:** Ratio tiles are a great way for students to explore simple ratios and proportions. Students can use ratio tiles to create different shapes and designs, and they can also use them to solve simple ratio problems.
- **Double Number Lines:** Double number lines are a helpful tool for students to visualize proportional relationships. Students can use double number lines to compare two quantities that are changing in relation to each other, and they can also use them to solve proportion problems.
- **Proportional Reasoning Word Problems:** Proportional reasoning word problems are a good way for students to apply their proportional reasoning skills to real-world situations. Students can be given a variety of word problems that involve proportional relationships, and they can use their proportional reasoning skills to solve the problems.

Building proportional reasoning across grades and math strands is essential for students' success in higher-level mathematics and science courses. By using hands-on activities and other effective teaching strategies, you can help your students develop the proportional reasoning skills they need to succeed.

Additional Resources

- [Khan Academy: Ratios and Proportions](#)
- [Education.com: Proportional Reasoning](#)

- Illustrative Mathematics: Task 607: Building Proportional Reasoning



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