



## Introduction to Equivalent Ratios

Equivalent ratios are a fundamental concept in mathematics, representing the same relationship between two quantities. This concept is crucial in various real-world applications, such as cooking, architecture, and science.

Can you think of other examples of equivalent ratios?

## Activity 1: Equivalent Ratio Scavenger Hunt

### Group Task:

Find examples of equivalent ratios in your everyday life, such as measuring ingredients for a recipe or determining the scale of a map. Write down your findings and explain how each example illustrates the concept of equivalent ratios.

Example	Explanation

## Real-World Applications of Equivalent Ratios

*Equivalent ratios are used in various real-world scenarios, such as:*

- Cooking: measuring ingredients for a recipe
- Architecture: designing buildings and structures
- Science: calculating proportions and concentrations

Can you think of other real-world applications of equivalent ratios?

## Activity 2: Equivalent Ratio Word Problems

*Solve the following word problems that involve equivalent ratios:*

1. A recipe calls for a ratio of 2 cups of flour to 3 cups of sugar. If you want to make half the recipe, what is the new ratio?

2. A map has a scale of 1:1000. If a distance on the map is 5 cm, what is the actual distance?

## Visualizing Equivalent Ratios

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*Equivalent ratios can be represented visually using diagrams, charts, and infographics. Can you create a visual representation of an equivalent ratio using a diagram or chart?*

[Space for visual representation]

## Activity 3: Equivalent Ratio Graphing

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*Create a graph to represent the equivalent ratio of 2:3. Use a ruler and graph paper to create the graph.*

[Space for graph]

## Conclusion

*In conclusion, equivalent ratios are a fundamental concept in mathematics with various real-world applications. By understanding equivalent ratios, we can solve problems, make informed decisions, and think critically.*

Remember to apply equivalent ratios in your everyday life and explore their practical applications.

## Assessment

Answer the following questions:

1. What is the equivalent ratio of 1:2?

2. A recipe calls for a ratio of 3 cups of flour to 4 cups of sugar. If you want to make half the recipe, what is the new ratio?

3. Can you think of a real-world application of equivalent ratios?

## Extension Activity

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*Design a theme park using equivalent ratios to determine the scale of the park, the size of the rides, and the number of visitors. Create a scale model of your park and write a report explaining your design decisions and calculations.*

[Space for design and report]

## Group Activity

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### **Group Task:**

Work in groups to design and create a visual representation of a real-world application of equivalent ratios. Present your findings to the class and explain how equivalent ratios are used in the application.

[Space for group presentation]

