

riddle with the word slope Study Guide

Unraveling the Fascinating World of Riddles with the Word "Slope"

Riddles have long been a captivating way to challenge our minds and stimulate our problem-solving abilities. Among the myriad of riddles encountered in puzzles and brain teasers, those involving the word "slope" hold a special place due to their clever wordplay and mathematical undertones. In this article, we delve into the intriguing realm of **riddle with the word slope**, exploring its origins, types, and how to craft your own challenging puzzles that incorporate this versatile term. Whether you're a puzzle enthusiast, a teacher seeking engaging classroom activities, or someone looking to sharpen your mental acuity, understanding riddles centered around "slope" is both fun and educational.

The Significance of "Slope" in Riddles and Puzzles

What Does "Slope" Mean?

Before diving into riddles, it's essential to understand what "slope" represents. In mathematics, the slope defines the steepness of a line, calculated as the ratio of the vertical change to the horizontal change between two points on a line (rise over run). It's a fundamental concept in algebra and geometry, often visualized as the incline of a hill or ramp.

Why Is "Slope" a Popular Word in Riddles?

- **Dual Meaning:** "Slope" can refer to a mathematical concept or a physical incline, making it ripe for wordplay and double entendres.
- **Visual Imagery:** The idea of a slope naturally evokes images of hills, ramps, or slides, inspiring creative riddles.
- **Educational Value:** Riddles involving "slope" can reinforce understanding of mathematical concepts while entertaining learners.

Types of Riddles Featuring "Slope"

Mathematical Riddles

These riddles often involve calculating or deducing the slope based on given data, encouraging logical reasoning and algebra skills.

Example

Riddle: I am a line with a slope of 2. If I pass through the point (1, 3), what is the equation of my line?

Answer: $y = 2x + 1$

Wordplay and Pun-Based Riddles

These riddles use the word "slope" to create puns or playful questions that challenge the listener's understanding or perception.

Example

Riddle: What do you call a mountain's secret that's always inclined to stay hidden? A slope-ting mystery!

Physical or Visual Riddles

These involve objects or scenarios where the concept of a slope is visualized, such as ramps or slides, prompting descriptive or observational riddles.

Example

Riddle: I am a smooth incline you can slide down, and I connect the top to the bottom without a single step. What am I?

Answer: A slide or ramp

How to Create Your Own Riddles with "Slope"

Step-by-Step Guide

- **Identify the Concept:** Decide whether your riddle will focus on the mathematical definition, physical object, or wordplay.
- **Choose the Format:** Will it be a straightforward question, a pun, or a visual puzzle?
- **Craft Clues Carefully:** Use descriptive language that hints at the answer without giving it away.
- **Incorporate Wordplay:** Play with the multiple meanings of "slope" to make it more engaging.
- **Test Your Riddle:** Share it with friends or colleagues to ensure it's challenging yet solvable.

Example of a DIY Riddle

Prompt: I am the measure of how steep a hill is, and I can also describe a line's tilt on a graph. What am I?

Answer: The slope

Mathematical Riddles with "Slope" to Challenge Your Brain

Sample Problems

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Problem: Two points on a line are (2, 5) and (4, 9). What is the slope of the line?

Solution: $\text{Slope} = (9 - 5) / (4 - 2) = 4 / 2 = 2$

-

Problem: A line passes through (0, 3) and has a slope of -1. Write its equation.

Solution: $y = -x + 3$

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Problem: The slope of a hill is 3. If you start at the top at point (0, 10), what is the height at point (4, ?)

Solution: The change in height is 3 times the horizontal distance: $3 \cdot 4 = 12$. Since starting height is 10, the height at (4, ?) is $10 - 12 = -2$ (below the starting point).

Famous Riddles and Puzzles Involving "Slope"

The Inclined Plane Riddle

Imagine a ramp connecting two levels. If the ramp rises 5 meters over a horizontal distance of 10 meters, what is the slope of the ramp?

Answer: $\text{Slope} = 5 / 10 = 0.5$

The Mountain and the Line

Suppose a mountain's side can be represented as a line with a slope of 1. If the base of the mountain is at (0, 0), what is the highest point on the mountain at $x = 8$?

Answer: $y = 1 \cdot 8 = 8$, so the point is (8, 8).

Benefits of Engaging with "Slope" Riddles

- **Enhances Mathematical Skills:** Solving slope-related riddles reinforces understanding of algebra and geometry.
- **Promotes Critical Thinking:** Many riddles require logical deduction and creative problem-solving.
- **Encourages Language Play:** Wordplay involving "slope" can improve vocabulary and linguistic flexibility.
- **Offers Fun and Education:** Riddles make learning engaging and memorable.

Tips for Mastering "Slope" Riddles

Practice Regularly

Consistently solving various slope riddles helps recognize patterns and develop intuition.

Visualize the Problem

Drawing diagrams or graphs can make understanding the slope more intuitive and aid in solving the puzzle.

Understand the Context

Identify whether the riddle plays on the mathematical or physical meaning of "slope" to approach it correctly.

Conclusion: Embrace the Challenge of "Slope" Riddles

Riddles featuring the word "slope" offer a unique blend of mathematical rigor and creative wordplay. They serve as excellent tools for educators, puzzle lovers, and anyone interested in sharpening their analytical skills. Whether you're solving a straightforward problem or devising your own clever puzzle, understanding the nuances of "slope" enhances your problem-solving toolkit. So, next time you encounter a riddle with the word "slope," remember to think both mathematically and creatively ? the answer might be closer than you realize!

Riddle with the word slope: Unlocking the Mysteries Behind a Mathematical and Linguistic Puzzle

Introduction

Riddles have long served as a fascinating form of intellectual entertainment, challenging our reasoning, language skills, and cultural knowledge. Among the countless riddles that have persisted through generations, those that incorporate specific words often possess layered meanings, requiring both linguistic cleverness and conceptual understanding to solve. One such intriguing word is "slope", a term that spans multiple disciplines—from mathematics and physics to geography and everyday language. In this article, we delve into the multifaceted nature of riddles involving the word "slope," exploring their origins, significance, and the cognitive processes they stimulate. We will dissect classic and contemporary riddles, analyze their structure, and reflect on how they exemplify the interplay between language and logic.

The Significance of the Word "Slope" in Riddles

The Multifaceted Nature of "Slope"

The word "slope" is inherently versatile, with meanings that extend beyond its simple definition as the incline of a surface. Its applications include:

- Mathematical context: The gradient of a line in coordinate geometry.
- Physics: The rate of change of a quantity over another, such as velocity or acceleration.
- Geography: The incline or gradient of terrain or landforms.
- Everyday language: Describing a hill, ramp, or incline used in daily life.

This multiplicity allows riddles involving "slope" to be rich in layers, demanding an understanding of both literal and figurative meanings.

Historical Origins and Cultural Significance of Slope Riddles

The Evolution of Riddles Featuring "Slope"

Historically, riddles involving geometric or physical concepts such as "slope" have emerged from educational contexts, especially in the teaching of mathematics and physics. In ancient civilizations like Greece and India, riddles and puzzles were used as pedagogical tools to develop critical thinking.

Over time, as the language of mathematics permeated popular culture, riddles began to incorporate terms like "slope" to test not only linguistic agility but also conceptual comprehension. For instance, riddles used to teach students about the concept of a line's steepness often employed "slope" metaphorically to describe characters or situations.

Cultural Significance

In modern times, riddles with the word "slope" are often employed in educational settings, riddling competitions, and puzzle books. They serve as a bridge connecting language, mathematics, and problem-solving skills, making them valuable tools across age groups and cultures.

Classic Riddles Featuring "Slope"

Riddle 1: The Steep Road

"I am a line that climbs high, yet I am not a mountain. I can be gentle or steep, but I always go from one point to another. What am I?"

Answer: The slope of a line.

Analysis:

This riddle plays on the idea of a line's gradient—its steepness—without explicitly mentioning mathematics. It emphasizes the qualities of the slope: direction, inclination, and the fact that it connects two points. The metaphorical language ("climbs high") evokes the concept of an incline, but the answer remains rooted in geometric terminology.

Riddle 2: The Hidden Rate

"I measure how fast you go uphill or downhill, but I am not a speed. I tell you how steep your path is. What am I?"

Answer: The slope.

Analysis:

Here, the riddle hints at the slope as a measure of steepness, akin to the gradient in physics or geography. It distinguishes between speed and inclination, guiding the solver toward understanding slope as a ratio or measurement, not just a physical feature.

Analytical Breakdown of Slope Riddles

Linguistic Strategies Used

- Metaphor and analogy: Riddles often describe the slope using metaphorical language ("climbing," "steep," "gentle") to evoke visual imagery.
- Ambiguity and double meanings: Words like "measure" and "rate" can refer to different

concepts, but in the context of the riddle, they point toward the mathematical definition.

- Contrast: Some riddles differentiate between types of slopes?positive, negative, zero?to add complexity.

Mathematical and Conceptual Layers

Most slope riddles hinge on understanding that:

- Slope is a ratio: the change in the vertical direction (rise) over the horizontal direction (run).
- A positive slope indicates an upward incline, negative indicates a downward slope.
- Zero slope corresponds to a horizontal line.
- Undefined slope corresponds to a vertical line.

This layered understanding is crucial in solving riddles that incorporate these concepts subtly.

Modern and Creative Variations of Slope Riddles

Incorporation into Educational Puzzles

In recent years, educators have crafted riddles and puzzles to teach slope concepts interactively:

- Graph-based riddles: Presenting a coordinate plane with a line, asking learners to identify its slope based on visual cues.
- Story problems: Framing slope as a real-world scenario, e.g., "A ramp rises 3 meters over 6 meters of horizontal distance?what is its slope?"

Wordplay and Puns

Some riddles creatively use puns involving "slope" and similar words:

- "I am the 'rise' and 'run' of your favorite hill, but I am not a mountain. What am I?"

Answer: The slope.

- "I can make a straight path more interesting, but I am not a zigzag. What am I?"

Answer: A slope.

These variations showcase how the word "slope" can be woven into playful language puzzles that challenge both linguistic and mathematical faculties.

The Cognitive and Educational Value of Slope Riddles

Enhancing Critical Thinking

Riddles involving "slope" compel solvers to:

- Bridge multiple domains of knowledge.
- Recognize contextual clues and interpret metaphors.
- Apply abstract concepts to concrete problems.

This process fosters critical thinking, pattern recognition, and the ability to transfer knowledge across disciplines.

Promoting Mathematical Literacy

By engaging with riddles that involve "slope," learners develop a deeper intuitive understanding of concepts like gradients, rates of change, and inclines?vital for fields ranging from physics to economics.

Developing Language and Logical Skills

The linguistic richness of slope riddles enhances vocabulary, comprehension, and the capacity to think laterally, essential skills in both academic and everyday contexts.

The Broader Implications and Future Directions

Riddles as Cultural Artifacts

As a form of oral and literary tradition, riddles involving "slope" embody the intersection of language, culture, and education. They reflect societal values about problem-solving and the appreciation of abstract thinking.

Potential for Digital and Interactive Media

With advancements in technology, slope riddles could evolve into interactive digital puzzles, augmented reality experiences, or gamified learning modules. These innovations could make understanding complex concepts more engaging, especially for younger audiences.

Cross-Cultural Variations

Different cultures may have unique riddles involving "slope," influenced by local language, geography, and educational priorities. Studying these variations can enrich our understanding of how abstract concepts are universally or culturally contextualized.

Conclusion

Riddles with the word "slope" serve as compelling examples of how language and mathematics intertwine to create engaging puzzles that challenge our reasoning and expand our conceptual horizons. Whether as educational tools, cultural artifacts, or recreational puzzles, these riddles embody the richness of human ingenuity in blending abstract ideas with playful inquiry. They remind us that understanding the simple yet profound concept of a slope can open doors to deeper insights—not only in mathematics but in how we perceive and navigate the world around us. As riddles continue to evolve with technological and cultural shifts, the word "slope" remains a versatile and inspiring symbol of the endless pursuit of knowledge and understanding.

Question What common word is part of a riddle involving a slope that can also describe a gradual incline? The word is 'slope' itself, which describes a gradual incline or tilt. In a riddle, if I say I am a line that goes down at an angle, what am I? You are a 'slope' or a 'sloped' line. What is the mathematical term for the measure of the steepness of a slope in a graph? The term is the 'gradient' or 'slope' of the line. If a riddle asks: 'I am a line that rises and falls, but always has a tilt,' what am I? You are describing a 'slope' or a line with a certain inclination. Which word related to hills and mountains is also used in riddles to describe an inclined surface? The word is 'slope.' In a puzzle, what do you call the side of a hill or mountain that has an angle of inclination? That side is called the 'slope.'

Related keywords: mountain riddle, incline puzzle, gradient riddle, hill challenge, slant puzzle, terrain riddle, gradient question, hill slope puzzle, incline riddle, elevation challenge

Word within the word vocabulary homework answers

word within the word vocabulary homework answers are a valuable resource for students aiming to improve their understanding of vocabulary, enhance their language skills, and excel in their homework assignments. Whether you're tackling complex word puzzles, engaging in language lessons, or preparing for exams, mastering the concept of "word within the word" can significantly boost your vocabulary proficiency. In this comprehensive guide, we will explore what "word within the word" vocabulary entails, how to approach homework questions, and effective strategies to find

the answers efficiently.

Understanding "Word Within the Word" Vocabulary Homework

What Is "Word Within the Word" Vocabulary?

"Word within the word" vocabulary refers to exercises or questions that ask students to identify smaller words embedded inside larger words. These activities are designed to enhance lexical recognition, improve spelling skills, and expand vocabulary by encouraging students to analyze words more critically.

For example, given the word "transportation," a student might find smaller words like "tan," "port," or "station." Such exercises challenge learners to look beyond the surface and recognize the building blocks of words, which can aid in decoding unfamiliar words in reading and writing.

Purpose and Benefits of "Word Within the Word" Exercises

These activities serve multiple educational purposes:

- **Vocabulary Expansion:** Discover new words hidden within larger words, broadening your lexicon.
- **Spelling Skills:** Recognize common prefixes, suffixes, and root words.
- **Reading Comprehension:** Improve ability to understand complex words by breaking them down.
- **Critical Thinking:** Develop analytical skills by examining word structures.
- **Test Preparation:** Prepare effectively for standardized tests that often include vocabulary questions.

How to Approach Word Within the Word Vocabulary Homework

Step-by-Step Strategies

To efficiently find answers in these exercises, follow these strategies:

- **Read the Entire Word Carefully:** Understand the full context and spellings.
- **Identify Common Word Patterns:** Look for familiar prefixes (e.g., un-, re-, pre-), suffixes (e.g., -ing, -ed, -tion), and root words.
- **Break the Word Into Segments:** Divide the word into smaller parts and analyze each segment.
- **Search for Smaller Words:** Look for shorter words within the larger word, starting with the

easiest or most obvious.

- **Use Context Clues:** Consider the meaning of the larger word to guide your search for embedded words.

- **Verify the Validity of the Smaller Word:** Ensure that the identified word is a legitimate word in your vocabulary or dictionary.

Common Challenges and How to Overcome Them

Some words may contain multiple embedded words or tricky spelling patterns. To overcome these challenges:

- **Practice Regularly:** Familiarity with common word components makes recognition easier.
- **Keep a Vocabulary Notebook:** Record new smaller words you find to reinforce learning.
- **Use Dictionaries or Word Tools:** When in doubt, verify words using reputable dictionary resources.
- **Ask for Help:** Collaborate with classmates or teachers to verify answers and learn new strategies.

Examples of "Word Within the Word" Vocabulary Questions and Answers

Sample Exercise 1

Question: Find all the words within "communication."

Solution:

- "comm" (informal abbreviation, but accepted in some contexts)
- "unit"
- "nation"
- "communication"
- "meet"
- "am"

Note: The focus should be on valid words according to your curriculum or dictionary.

Sample Exercise 2

Question: Identify smaller words inside "transportation."

Solution:

- "port"
- "station"
- "tan"
- "art"
- "ation" (suffix)
- "tion" (common suffix)

Sample Exercise 3

Question: List the words within "understanding."

Solution:

- "under"
- "stand"
- "ring"
- "stand"
- "ing" (suffix)
- "den"

Tools and Resources to Help Find Word Within the Word Answers

Online Dictionaries and Word Lists

Utilize comprehensive dictionaries like Merriam-Webster or Oxford to verify smaller words. Online word list generators or puzzle solvers can also assist in identifying embedded words.

Educational Apps and Websites

Platforms such as Vocabulary.com, Quizlet, and educational game websites offer interactive exercises and practice quizzes to strengthen your skills.

Word Games and Puzzles

Engage with games like Scrabble, Boggle, or crossword puzzles to naturally improve your ability to spot hidden words.

Tips for Teachers and Parents to Support Students

Encourage Regular Practice

Set aside time for students to practice word within the word exercises regularly. Consistent exposure helps build recognition skills.

Use Visual Aids

Create charts or flashcards showcasing common prefixes, suffixes, and root words to help students identify embedded words more easily.

Incorporate Games and Fun Activities

Design fun challenges or competitions centered around finding embedded words to motivate learners.

Provide Constructive Feedback

When students attempt exercises, offer guidance and explanations to deepen their understanding.

Conclusion: Mastering Word Within the Word Vocabulary for Academic Success

Mastering the art of finding words within words is a powerful tool in expanding vocabulary, improving spelling, and enhancing reading comprehension. With patience, practice, and the right strategies, students can confidently tackle "word within the word" homework questions and excel academically. Remember that these exercises are not only about finding answers but also about understanding the structure and beauty of language. By actively engaging with these activities, learners develop critical thinking skills and a lifelong appreciation for words.

Whether you're a student looking to improve your vocabulary or a teacher seeking effective teaching strategies, focusing on "word within the word" exercises can unlock new levels of language mastery. Embrace the challenge, utilize available resources, and watch your vocabulary grow!

Word Within the Word Vocabulary Homework Answers: An In-Depth Investigation

Vocabulary development is a cornerstone of effective language mastery. Among various pedagogical approaches, the "word within the word" strategy has gained prominence for its capacity to enhance etymological understanding and retention. This method involves identifying smaller words embedded within larger, more complex words. While it is widely used in classroom settings to

bolster vocabulary, the reliance on "word within the word" homework answers has sparked both praise and skepticism. This article explores the origins, pedagogical significance, common pitfalls, and the implications of relying on answer keys for this approach, providing a comprehensive review of its role in vocabulary education.

The Genesis and Pedagogical Rationale Behind "Word Within the Word" Strategies

Historical Roots of Morphological Analysis

The "word within the word" concept is deeply rooted in morphological analysis—a linguistic approach that examines the structure and formation of words. Historically, educators and linguists recognized that understanding the components of words, such as roots, prefixes, and suffixes, facilitates deeper comprehension and retention. This analytical approach helps learners decipher unfamiliar words by breaking them down into familiar parts.

Educational Philosophy and Cognitive Benefits

The strategy aligns with constructivist theories of learning, emphasizing active engagement and discovery. By dissecting words into smaller units, students develop:

- Etymological Awareness: Recognizing the origins and evolutions of words.
- Pattern Recognition: Identifying common affixes and roots.
- Memory Enhancement: Reinforcing vocabulary through meaningful analysis.

Furthermore, "word within the word" exercises encourage critical thinking, enabling learners to make connections across vocabulary sets, thereby promoting long-term retention.

Common Applications and Variations in Classroom Practice

Typical Homework and Classroom Exercises

Students are often tasked with identifying hidden words within larger vocabulary words, such as:

- Example 1: Within "unbelievable," students might find "believe" and "able."
- Example 2: In "disappear," the word "appear" is embedded.

These exercises can be tailored for different grade levels and vocabulary complexities, often involving:

- Listing all embedded words.
- Categorizing embedded words by parts of speech.
- Creating sentences using the embedded words.

Variations and Supporting Activities

Some educators extend the strategy with supplementary activities, including:

- Etymology mapping: Tracing roots and affixes.
- Word family charts: Grouping words sharing common components.
- Puzzle creation: Developing crosswords or word searches based on embedded words.

These variations aim to diversify engagement and deepen understanding.

Analyzing the Reliability and Limitations of "Word Within the Word" Homework Answers

Dependence on Answer Keys

While the exercise promotes active learning, the availability of answer keys raises concerns about student independence and genuine comprehension. When students rely solely on provided answers, they risk:

- Surface-level learning: Memorizing answers without understanding.
- Reduced critical thinking: Accepting solutions without questioning.

Research suggests that rote memorization may undermine the primary goal of vocabulary instruction, which is to foster meaningful understanding.

Common Challenges and Misconceptions

Students may encounter pitfalls such as:

- Overgeneralization: Assuming all embedded words are meaningful or relevant.
- Ignoring context: Failing to consider the original word's full meaning.
- Misidentification: Confusing letter sequences that appear embedded but are not constituent words.

For example, in "responsibility," a student might mistakenly identify "ibility" as a standalone word, illustrating the importance of critical analysis.

The Educational Impact of Using Answer Keys in Vocabulary Development

Advantages of Guided Answer Use

When used judiciously, answer keys can:

- Serve as immediate feedback tools.
- Clarify misunderstandings.
- Provide models for correct identification.

This support can boost confidence, especially for struggling learners.

Risks of Over-Reliance and Strategies to Mitigate

However, over-reliance can impede critical thinking, leading to:

- Reduced ability to independently analyze words.
- Decreased motivation to explore vocabulary deeply.

To mitigate these issues, educators should encourage students to:

- Cross-check answers with their reasoning.
- Engage in peer discussions.
- Reflect on the meaning and usage of embedded words.

Assessing the Effectiveness of "Word Within the Word" Strategies in Vocabulary Acquisition

Empirical Evidence and Educational Outcomes

Studies indicate that morphological analysis, including identifying embedded words, can enhance vocabulary acquisition when integrated into broader instructional frameworks. Specifically, research shows:

- Improved retention of complex words.
- Increased awareness of word origins and constructions.
- Enhanced decoding skills for unfamiliar words.

However, effectiveness depends heavily on instructional quality and student engagement.

Best Practices for Implementation

To maximize benefits, educators should:

- Integrate "word within the word" exercises with context-based reading.
- Combine with etymology lessons.
- Use formative assessments to monitor understanding.
- Emphasize reasoning over rote answer memorization.

Conclusion: The Future of "Word Within the Word" Vocabulary Exercises

The "word within the word" approach remains a valuable pedagogical tool, fostering analytical skills and deeper vocabulary understanding. Nonetheless, the reliance on homework answers and answer keys must be balanced with activities that promote critical thinking, contextual comprehension, and independent analysis. As vocabulary instruction continues to evolve, integrating technological tools such as interactive word analysis software and fostering inquiry-based learning will likely enhance the efficacy of this strategy.

In the end, the goal is not merely to produce correct answers but to cultivate lifelong language learners capable of decoding, understanding, and appreciating the richness of the English lexicon. Properly employed, "word within the word" exercises can be a stepping stone toward this objective, provided educators emphasize process over product and encourage active exploration over rote memorization.

Question What is the purpose of 'word within the word' vocabulary exercises? They help students improve their vocabulary by identifying smaller words inside larger words, enhancing word recognition and understanding. **Answer** How can I find the answers to 'word within the word' vocabulary homework? Answers can often be found by breaking down complex words into smaller parts or using online vocabulary resources and practice worksheets. Are there any tips for solving 'word within the word' vocabulary questions? Yes, look for common prefixes, suffixes, and root words within the larger word to identify smaller words more easily. Can 'word within the word' exercises help improve my spelling? Absolutely, they reinforce understanding of word parts and spelling patterns, which can improve overall spelling skills. What are some common strategies to succeed in

vocabulary homework involving words within words? Strategies include breaking words into syllables, identifying prefixes and suffixes, and practicing with flashcards of common root words. Are 'word within the word' questions suitable for all grade levels? Yes, they can be adapted for different ages by increasing or decreasing the complexity of the words involved. Where can I find practice worksheets for 'word within the word' vocabulary homework? Many educational websites and teachers provide free printable worksheets and online practice activities for this type of exercise. How do I verify my answers for 'word within the word' vocabulary questions? Check your identified smaller words against dictionaries or vocabulary lists to ensure accuracy. Why are 'word within the word' exercises important for language development? They enhance decoding skills, expand vocabulary, and improve comprehension by recognizing word parts. Can using online tools help me find answers for 'word within the word' exercises? Yes, tools like online dictionaries, word finders, and vocabulary apps can assist in identifying smaller words within larger words.

Related keywords: word analysis, vocabulary definitions, homework solutions, word breakdown, spelling tips, language learning, vocabulary exercises, word puzzles, vocabulary practice, study aids

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