

2-1 Study Guide and Intervention

Inductive Reasoning and Conjecture

Making Conjectures Inductive reasoning is reasoning that uses information from different examples to form a conclusion or statement called a **conjecture**.

Example 1 Write a conjecture about the next number in the sequence 1, 3, 9, 27, 81.

Look for a pattern:

Each number is a power of 3.

$$1 \quad 3 \quad 9 \quad 27 \quad 81$$

$$3^0 \quad 3^1 \quad 3^2 \quad 3^3 \quad 3^4$$

Conjecture: The next number will be 3^5 or 243.

Example 2 Write a conjecture about the number of small squares in the next figure.



Look for a pattern: The sides of the squares have measures 1, 2, and 3 units.

Conjecture: For the next figure, the side of the square will be 4 units, so the figure will have 16 small squares.

Exercises

Write a conjecture that describes the pattern in each sequence. Then use your conjecture to find the next item in the sequence.

1. $-5, 10, -20, 40$ **Pattern:** Each number is -2 times the previous number.
Conjecture: The next number is -80 .

2. $1, 10, 100, 1000$ **Pattern:** Each number is 10 times the previous number.
Conjecture: The next number is 10,000.

3. $1, \frac{6}{5}, \frac{7}{5}, \frac{8}{5}$ **Pattern:** Each number is $\frac{1}{5}$ more than the previous number.
Conjecture: The next number is $\frac{9}{5}$.

Write a conjecture about each value or geometric relationship. 4–7. Sample answers are given.

4. $A(-1, -1), B(2, 2), C(4, 4)$
Points $A, B,$ and C are collinear.



6. $\angle ABC$ and $\angle DBE$ are vertical angles.
 $\angle ABC$ and $\angle DBE$ are congruent.



5. $\angle 1$ and $\angle 2$ form a right angle.
 $\angle 1$ and $\angle 2$ are complementary.



7. $\angle E$ and $\angle F$ are right angles.
 $\angle E$ and $\angle F$ are congruent.



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Table of Contents Glencoe Study Guide Intervention Work Answers

1. Understanding the eBook Glencoe Study Guide Intervention Work Answers
 - The Rise of Digital Reading Glencoe Study Guide Intervention Work Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Glencoe Study Guide Intervention Work Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Glencoe Study Guide Intervention Work Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Glencoe Study Guide Intervention Work Answers
 - Personalized Recommendations
 - Glencoe Study Guide Intervention Work Answers User Reviews and Ratings
 - Glencoe Study Guide Intervention Work Answers and Bestseller Lists
5. Accessing Glencoe Study Guide Intervention Work Answers Free and Paid eBooks

- Glencoe Study Guide Intervention Work Answers Public Domain eBooks
 - Glencoe Study Guide Intervention Work Answers eBook Subscription Services
 - Glencoe Study Guide Intervention Work Answers Budget-Friendly Options
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7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Glencoe Study Guide Intervention Work Answers
 - Highlighting and Note-Taking Glencoe Study Guide Intervention Work Answers
 - Interactive Elements Glencoe Study Guide Intervention Work Answers
8. Staying Engaged with Glencoe Study Guide Intervention Work Answers
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Glencoe Study Guide Intervention Work Answers
9. Balancing eBooks and Physical Books Glencoe Study Guide Intervention Work Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Glencoe Study Guide Intervention Work Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Glencoe Study Guide Intervention Work Answers
- Setting Reading Goals Glencoe Study Guide Intervention Work Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Glencoe Study Guide Intervention Work Answers
- Fact-Checking eBook Content of Glencoe Study Guide Intervention Work Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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