

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.



Math Study Guide And Intervention

AN Whitehead



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Math Study Guide And Intervention Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Math Study Guide And Intervention**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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