

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.

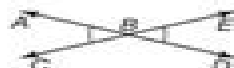
3. $1, \frac{6}{5}, \frac{7}{5}, \frac{8}{5}$ **Pattern:** Each number is $\frac{1}{5}$ more than the previous number.
Conjecture: The next number is $\frac{9}{5}$.

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

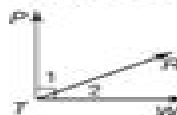
4. $A(-1, -1), B(2, 2), C(4, 4)$
Points A, B, and C are collinear.



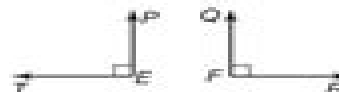
6. $\angle ABC$ and $\angle DBE$ are vertical angles.
 $\angle ABC$ and $\angle DBE$ are congruent.



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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