

Name _____

13-5A Lesson Master**Questions on SPUR Objectives**

See pages 833–835 for objectives.

PROPERTIES Objective EIn 1–4, *true or false*. If false, provide a counterexample.

1. All even numbers are divisible by 6. _____
2. The sum of two even numbers is even. _____
3. The product of two odd numbers is even. _____
4. The quotient of two even numbers is even. _____
5. Consider the statement: If two numbers are both divisible by 3, then their sum is divisible by 6.
 - a. Is this statement true or false?
If false, provide a counterexample. _____
 - b. Use rows of dots to explain why this statement is true or false. _____
6. Prove: If a number is divisible by 5, then its square is divisible by 25.

7. Prove: If the sum of two numbers is divisible by 12 and one of the numbers is divisible by 36, then the other number is divisible by 12.

