

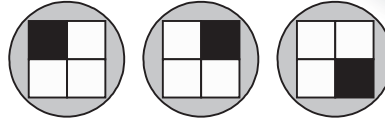
Guided Practice 9.5

NAME _____

Module 9 Characteristics of Geometric Shapes
Lesson 5 Inductive and Deductive Reasoning

Set 1

1 Draw the next figure in the sequence.



2 The sum of the numbers from one to 10 is 55.
The sum of the numbers from 11 to 20 is 155.
The sum of the numbers from 21 to 30 is 255.
According to this pattern, what is the sum of the numbers from 91 to 100?

Numbers	Sum
1-10	55
11-20	155
21-30	255



3 Since bisecting means to divide into two congruent parts, find a counterexample to the following conjecture:

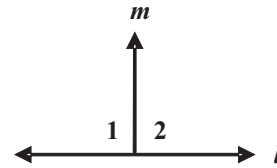
When any angle is bisected, two acute angles are formed.



Set 2

1

Given that $\angle 1 \cong \angle 2$, prove that l is perpendicular to m .



2

Given that M is the midpoint of \overline{AB} , prove that $AM = \frac{1}{2} AB$.

