

Name _____

1-3A Lesson Master

Questions on SPUR Objectives

See pages 60–63 for objectives.

SKILLS Objectives B, C

In 1-3, consider three instances of the pattern below:

$|4| = 4$

$\left|\frac{1}{3}\right| = \frac{1}{3}$

$|5.32| = 5.32$

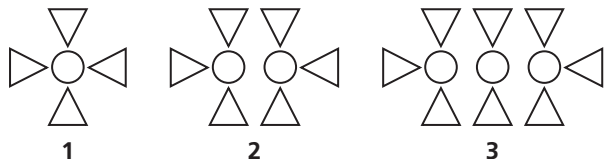
- Describe the pattern using one variable. _____
- Find another number that is an instance of this pattern. _____
- Find a number that is a counterexample to this pattern. _____
- Using the table, evaluate each expression for 4 different values of the variable.

n	$5n^2 + 9n - 2n + 5$	$5n^2 + 12$

Use your results to determine whether the expression $5n^2 + 9n - 2n + 5$ appears to be equivalent to the expression $5n^2 + 12$ and explain your reasoning.

In 5-8, refer to 3 instances of the pattern that is made with circles and triangles.

- Draw the fourth instance of the pattern.



- How many circles and how many triangles will there be in the 10th instance? _____
- How many circles are needed to make the n th design? _____
- Describe the pattern of triangles using the variable n to represent the number of circles. _____