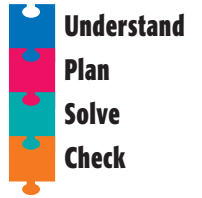


Problem Solving Strategy

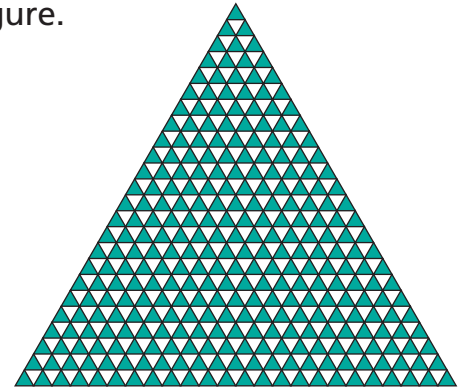
Look for a Pattern

NCTM Standards 2, 3, 4, 6, 8, 10

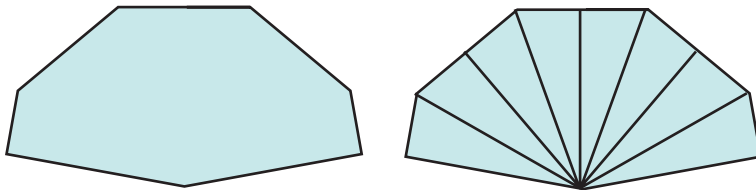


- 1 Kurt used green and white triangles to make this figure. There are 24 rows in the figure.

- A How many small triangles (green and white) did he need? _____
- B How many small triangles (green and white) would be in a figure with n rows? _____



- 2 The heptagon (seven-sided polygon) on the left can be cut into eight congruent triangles, as shown on the right. The triangles are right triangles, and one angle measures 20° .



- A What is the sum of the angle measures at the vertices of the heptagon? _____
- B Explain how you found your answer.