

Exploring Houses

Name _____

Build these houses using the orange squares and the green triangles from pattern-block pieces:



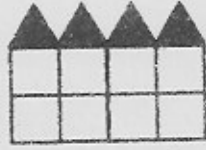
House 1



House 2



House 3



House 4

1. For each house, determine the total number of pieces needed. _____

How many squares and triangles are needed for a given house? _____

Organize your information in some way.

2. Describe what house 5 would look like. _____

Draw a sketch of this house.

3. Predict the total number of pieces you will need to build house 15. _____

Explain your reasoning. _____

4. Write a rule that gives the total number of pieces needed to build any house in this sequence. _____