

Build these houses using the orange squares and the green triangles from pattern-blocks.

Squares: 2
Triangles: 1



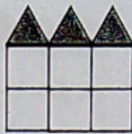
House 1
3

Squares: 4
Triangles: 2



House 2
6

Squares: 6
Triangles: 3



House 3
9

Squares: 8
Triangles: 4



House 4
12

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.

House #	S	T	Total
1	2	1	3
2	4	2	6
3	6	3	9
4	8	4	12

4. Write a rule that gives the total number of pieces needed to build _____

$3 \times \text{house \#} = \text{\# of pieces}$

4. Write a rule that gives the total number of pieces needed to build _____

$y = 2x + 1x$

Squares
Triangles

$y = 3x$

Total Pieces