

Building as a General Rule Copymaster 7

There are three tasks for you here.



first house



second house



third house

Task 1

How many red squares do you need for the first house? The second? The third?

How many red squares will you need for the fifth house? The seventh? The tenth?

What can you say about the number of squares that you will need for any house in this sequence?

What do you think the general rule for the pattern for these houses is?

Can we test this general rule out with a few examples? Does it work for the first house?

The second house? The tenth house?

Task 2

Use a recurrence rule to find another pattern that has the same first three terms as the house pattern above?

Does it work for the first house? The second house? The tenth house?

Task 3

Call the pattern of Task 1 the 'Task 1 pattern' and the pattern from Task 2 the 'Task 2 pattern'. Which is the biggest, the eighth term of the Task 1 pattern or the eighth term of the Task 2 pattern?

Is there a term of the Task 1 pattern that is the same as some term of the Task 2 pattern?

Which pattern has the term that is nearest to 100?