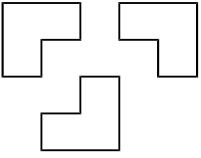
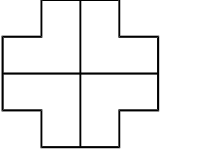


Sequences Homework

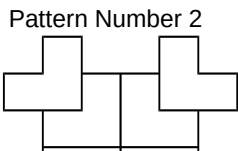
Owen has some tiles like these:



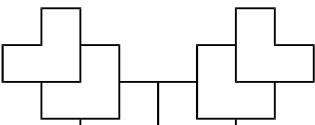
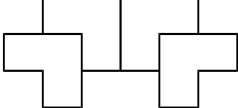
He uses the tiles to make a series of patterns.



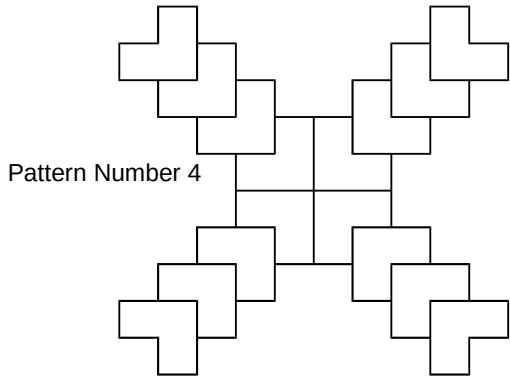
Pattern Number 1



Pattern Number 2



Pattern Number 3

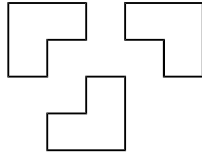


Pattern Number 4

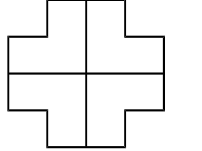
- (a) Each new pattern has more tiles than the one before.
How many more tiles does Owen add each time he makes a new pattern?
- (b) How many tiles will Owen need altogether to make pattern number 6?
- (c) How many tiles will Owen need altogether to make pattern number 9?
- (d) Owen uses 40 tiles to make a pattern.
What is the number of the pattern he makes?

Sequences Homework

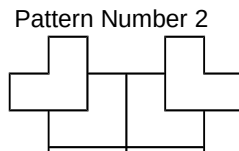
Owen has some tiles like these:



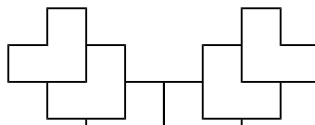
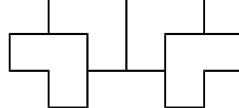
He uses the tiles to make a series of patterns.



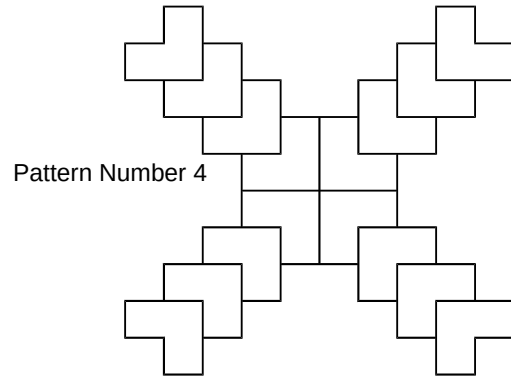
Pattern Number 1



Pattern Number 2



Pattern Number 3



Pattern Number 4

- (a) Each new pattern has more tiles than the one before.
How many more tiles does Owen add each time he makes a new pattern?
- (b) How many tiles will Owen need altogether to make pattern number 6?
- (c) How many tiles will Owen need altogether to make pattern number 9?
- (d) Owen uses 40 tiles to make a pattern.
What is the number of the pattern he makes?