

L Patterns

This task is about continuing a spatial pattern and finding the rule.

Suli is playing with counters, making letter Ls of various sizes, like this:



a) Complete this table, giving the total number of counters in letter Ls of different sizes:

Height of letter L (counters)	3	4	5	6	7	8
Total number of counters	4	6	8			

b) How many counters in total would be needed to make a letter L that is ...

- i) 10 counters high? counters
- ii) 16 counters high? counters
- iii) 37 counters high? counters

c) Explain or write a rule that describes how to work out the total number of counters needed from the height of an L-shape.

d) If the total number of counters was 40, how many counters high would the letter L be?

counters