



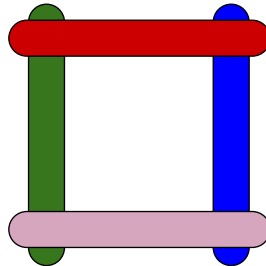
Problem of the Week

Problem A

Crafty Construction

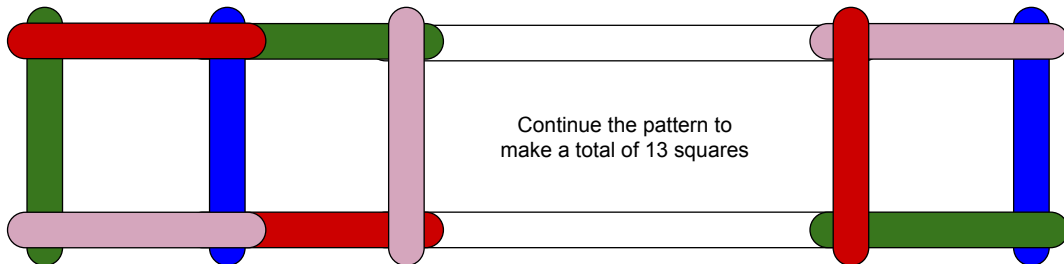
Sam is making square picture frames for his friends and family. He has one box of popsicle sticks and there are 50 sticks in a box. He needs to make 13 frames.

A) If Sam builds individual frames like this:



will he have enough material to build 13 individual frames? Explain your answer.

B) Instead of individual frames, he decides to connect the frames in a line so that any two frames share at most one popsicle stick.



If he built the frames this way, would he have enough sticks in a box of 50 to make connected frames for 13 pictures?

- C) Can you draw another layout of the 13 frames where any two frames share at most one popsicle stick?
- D) What is the fewest number of popsicle sticks you would need to make connected frames for 13 pictures?

STRANDS PATTERNING AND ALGEBRA, NUMBER SENSE AND NUMERATION

