Problem of the Week

Problem B

Stanley's Sticky Note Stacks

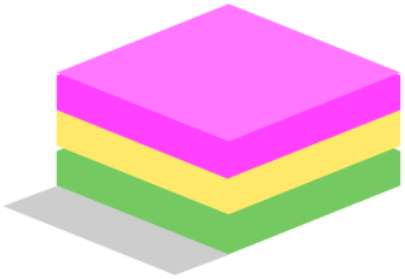
Stanley has stacks of sticky notes in three colours: yellow, pink, and green. At the start of the week, the ratio of the number of yellow to pink to green sticky notes is $9 : 5 : 2$. Each day Stanley leaves 3 yellow and 2 green sticky notes on his friend's desk, but no pink. After several days he runs out of green sticky notes and exactly 30 pink sticky notes remain.

(a) How many sticky notes of each colour did Stanley start with?

(b) For how many days did Stanley leave sticky notes for his friend?

(c) How many yellow sticky notes remain?

(d) Stanley then bought 50 more green sticky notes and found one extra green sticky note in his bag. What is the ratio of the number of yellow to pink to green sticky notes now? Give your answer in the simplest form.



Theme: Number Sense