## Problem of the Week Problem B Friendly Towers

Friendly Towers is a high-rise apartment building. Dieter and three of his friends, Sanjay, Bethany, and Ivanka live on different floors of Friendly Towers.

- Dieter lives on the 9<sup>th</sup> floor.
- Friendly Towers has five times as many floors as Dieter's floor number.
- Bethany lives on the third floor below the top floor.
- Ivanka lives two floors above Sanjay, and Sanjay lives 5 floors below Bethany.
- On the floor which is  $\frac{8}{9}$  ths of the way to the top of the building, you will find a pool used by residents of the building.

Which floor do each of Sanjay, Bethany, and Ivanka live on, and on which floor is the pool located?



STRAND NUMBER SENSE AND NUMERATION

