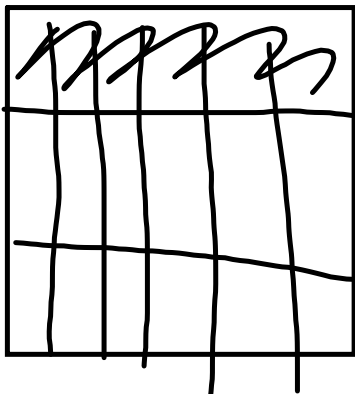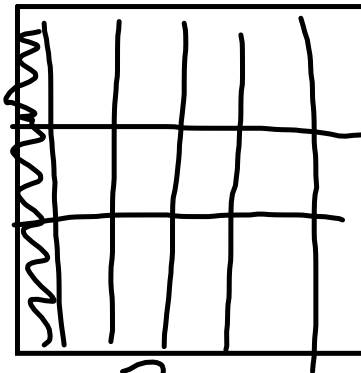# Will it Always Work?

Directions: Solve each of the problems below using the area (grid) model as well as equations to determine if what your class generalized for finding a common denominator will always work. Record your work on a separate sheet(s) of paper.

1. Mariano recently got a puppy and a kitten for his birthday. The puppy is already $\frac{1}{3}$ of a year old and the kitten is $\frac{1}{6}$ of a year old. Which pet is older? How much older?

2. Janice and Chris are working on a project together. Janice completed $\frac{1}{2}$ of the project over the weekend. Chris completed another $\frac{3}{7}$ of the project on the following Monday. How much of the project do Chris and Janice have left to complete?

3. MJ's parents keep track of how tall he is growing by marking his height each month on his closet door. In January MJ grew $\frac{5}{8}$ inches and in February he grew $\frac{1}{2}$ an inch. In which month did MJ grow the most? How much more did he grow in that month?

puppy 1/3   kitten 1/6

$$\frac{6}{18} - \frac{3}{18} = \frac{3}{18} = \frac{3}{18} \div \frac{1}{36}$$

The puppy is older. By $\frac{1}{6}$ of a year.