## Division assignment:

1. Do the problem $838 \div 36$ three ways:
a. Draw out how to solve it using manipulatives (your choice of base 10 blocks or stamp game)
b. Write out the answer using the scaffolding algorithm
c. Write out the answer using standard (long) division
d. Then color code $a, b$, and $c$ or in some other way explain and draw how the 3 solutions fit together.
2. Do each of these problems by scaffolding division using friendly numbers (not the most efficient numbers) and by standard (long) division. Color code the solutions to show how the two solutions methods fit together.
a. $2036 \div 26$
b. $969 \div 14$
3. Below is the work of 3 fictional students. Some of them (at least 1 ) are making consistent errors. That means, if there is the opportunity in the problem for them to make their error, they will make it. Some of them (at least 1) have alternate algorithms that they are using (that yield the correct result in a reasonable). Try to figure out what each is doing and why.

- Figure out what each student is doing and to do the same thing they would on the uncompleted problems at the end of each set.
- Explain what they did in words: what are they doing and why: is it an error or an alternate algorithm?
A. $\begin{array}{ccccc}5084 \\ 5 \longdiv { 2 5 4 } 4 & 9 \longdiv { 4 5 6 0 6 } & 730 & 370 \\ 256 \\ 4 & \frac{45}{60} & 8 \longdiv { 5 8 4 0 } & 7 \longdiv { 2 1 4 9 } & 6 \longdiv { 4 8 1 8 } \\ & \frac{5400}{6} & \frac{240}{49} & \frac{41}{45} & \end{array}$

F.

$$
\begin{array}{rrrr}
4 & 22 \\
46 & 36 & 137 & 46 \\
\times 8 & \times 7 \\
\hline 648 & \times 4 \\
\hline 49^{2} & \times 5 & 39 \\
\hline 120
\end{array}
$$

