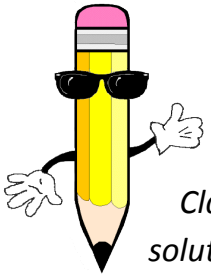

Name: _____Per. _____

2.4 Practice

Classify the following equations as having one solution, no solution, or infinitely many solutions.

1. 2x + 2 = 2x + 5 **2**. x + 7 = x + 7 **3.** y – 5 = y + 5

Solve

4. 7x + 18x – 3 = 5(5x + 7)

5. 4(4x + 5) = 18x + 16 – 2x + 4

6. 8x + 16x – 7 = 6(4x + 10)

7. 4x + 13x – 4 = 5(4x + 2)

8. Delta and Southwest Airlines both advertise their prices. Delta's prices are modeled by the expression 28x – 9, where x is the number of tickets sold. Southwest's prices are modeled by the expression 7(4x + 7), where x is the number of tickets sold. When do the two airlines charge the same?

Mixed Review

1. $\frac{z}{4} + 5 = 7 - \frac{z}{4}$
2. Write 0.36 as a fraction in simplest form.
3. Compare $\sqrt{2}$ and 2.4 (Insert =,< >)
4. At a dinner the same number of guests are seated at each of 9 large tables. There are 4 guests seated at one small table. Write an equation to represent the total number of guests T and the number of people x at each large table.
5. Using the equation from #4, of there are 94 guests at the dinner, how many are seated at each large table?