Name _____ Date _____ Pd __

CYU 1.4 Solving 3 Variable Systems

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Systems solutions'			
Substitution & Elimination			

1. $\begin{aligned} x + y + z &= 3 \\ -x + 3y + 2z &= -8 \\ x &= 4z \end{aligned}$

2. $\begin{aligned} x + y + z &= 2 \\ 2x - 3y + z &= 11 \\ -3x + 2y - 2z &= -13 \end{aligned}$

3. $\begin{aligned} x + 4y - 2z &= 3 \\ x + 3y + 7z &= 1 \\ 2x + 9y - 13z &= 2 \end{aligned}$

4.
$$x - y + 3z = 6$$
$$x - 2y = 5$$
$$2x - 2y + 5z = 9$$

5.
$$x + 2z = 4$$
$$x + y + z = 6$$
$$3x + 3y + 4z = 28$$

6. A school band performs a spring concert for a crowd of 600 people. The revenue for the concert is $3150. There are 150 more adults at the concert than students. How many of each type of ticket are sold?

BAND CONCERT

STUDENTS - $3   ADULTS - $7
CHILDREN UNDER 12 - $2

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!
How confident are you with the skills this CYU covered? Circle the score you would give yourself.

| 1   2 | 3   4   5 | 6   7 | 8 |

Basic   Intermediate   Advanced   Solved ALL!