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$\qquad$ Class $\qquad$

## Solving Linear Systems in Three Variables II

## Determine the number of solutions for each.

1. $\left\{\begin{array}{l}2 x-6 y+4 z=3 \\ -3 x+9 y-6 z=-3 \\ 5 x-15 y+10 z=5\end{array}\right.$
2. $\left\{\begin{array}{l}-4 x+2 y+2 z=-2 \\ 2 x-y-z=1 \\ x+y+z=2\end{array}\right.$

## Write a system of equations and solve.

3. At the arcade Sami won 2 blue tickets, 1 yellow ticket and 3 red tickets for 1500 total points. Jamal won 1 blue ticket, 2 yellow tickets, and 2 red tickets for 1225 total points. Yvonne won 2 blue tickets, 3 yellow tickets, and 1 red ticket for 1200 total points Write and solve a system of equations to determine the point value of each type of ticket.

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