Student Name: $\qquad$ Date: $\qquad$

## Tic-Tac-Equations

Cut apart the Tic-Tac-Equations Cards and place them face down in a draw pile. Determine which player will start the game. To win, a player must get three in a row.

- The first player draws a card and decides whether to draw again or keep the card. If the player decides to draw again, he or she returns the card to the draw pile and chooses a new card. The player must keep this second card.
- The player determines the correct system of linear equations that matches the card, and places his or her mark ( X or O ) on the board below. The card is then placed in a discard pile.
- Play proceeds with Player 2.
- At any time if a player disagrees with the other player, he or she may challenge the work. The correct player places his or her symbol on the board.
- Play alternates between players until one player has three in a row.

| $\begin{array}{r} 4 s+2 l=52 \\ I+3 s=32 \end{array}$ | $\begin{array}{r} 2 a+3 c=96 \\ a+2 c=54 \end{array}$ | $\begin{aligned} q+d & =12 \\ .25 q+.10 d & =2.10 \end{aligned}$ |
| :---: | :---: | :---: |
| $\begin{array}{r} 2 a+3 c=28 \\ a+2 c=16 \end{array}$ | $\begin{aligned} q+d & =24 \\ .25 q+.10 d & =4.20 \end{aligned}$ | $\begin{aligned} 2 a & =20 \\ a+3 c & =28 \end{aligned}$ |
| $\begin{aligned} c+g & =10 \\ .50 c+.25 g & =4 \end{aligned}$ | $\begin{aligned} & 2 c+4 g=2 \\ & 3 c+2 g=2 \end{aligned}$ | $\begin{array}{r} 2 a+3 c=48 \\ a+2 c=28 \end{array}$ |

## Communicating About Mathematics

Why do you think it is important to know how to set up a system of linear equations like those in this activity?

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Tic-Tac-Equations Cards
Cut along the dotted lines.


