

Student Name:

Date:

## **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.

4s+2/=52	2a+3c=96	q+d=12
/+3s=32	a+2c=54	.25q+.10d=2.10
2a+3c=28	q+d=24	2a = 20
a+2c=16	.25q+.10d=4.20	a+3c=28
c+g=10	2c+4g=2	2a+3c =48
.50 $c+.25g=4$	3c+2g=2	a+2c=28

## **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.

Callie and Elizabeth bought reusable bags for a fundraiser. Callie bought 4 small bags and 2 large bags and spent \$52. Elizabeth bought 1 large bag and 3 small bags and spent \$32.	Chandra has some change in her wallet. She has \$4.20 in quarters and dimes. There are a total of 24 coins.	Alyssa's family went to the movies with Andrea's family. They each bought their own tickets. Alyssa bought 1 adult ticket and 2 child tickets and spent \$16. Andrea spent \$28 on 2 adult tickets and 3 child tickets.
Rich has 12 coins in his pocket that total \$2.10. The only types of coins he has are quarters and dimes.	Micah bought 2 adult tickets and 3 child tickets to the football game for \$96. Stephen bought 1 adult ticket and 2 child tickets to the same football game and spent \$54.	Chris and his friend David attended the boat show. Chris bought 2 adult tickets for \$20. David bought 3 child tickets and 1 adult ticket and spent \$28.
Sharon and Kay went to a craft show with their granddaughters. Sharon bought 1 adult ticket and 2 child tickets and spent \$28. Kay bought 2 adult tickets and 3 child tickets and spent \$48.	Morgan and Chase went to the candy store. Morgan had \$2 and bought 3 chocolate candies and 2 pieces of gum. Chase also had \$2. She bought 2 chocolate candies and 4 pieces of gum.	Calvin went to the candy store. The chocolate candy cost 50 cents each and the gum cost 25 cents each. Calvin bought 10 pieces of candy and spent \$4.