

# Equations Game

Dear Parent/Guardian:

Our class has been learning about equations. For example, we investigated equations such as  $3 + 4 = 2 + 5$ , and we used concrete materials to show that  $3 + 4$  is equal to  $2 + 5$ .

Here is a game that will reinforce ideas about equations with your child. For this game, you will need two number cubes (dice), paper, a pencil, and a collection of approximately 25 small objects (e.g., buttons, macaroni, beans).

## *How to Play the Game*

- Both players take a turn rolling two regular dice. Using the numbers shown on them, each player records on his or her paper an addition statement (without the answer). For example, if a player rolls 5 and 3, he or she records " $5 + 3 =$ ".
- After both players have recorded an addition sentence, they take turns rolling the regular dice. After each roll, the player determines whether the sum of the numbers on the regular dice is equal to the addition statement on his or her page. For example, if a player has recorded " $5 + 3 =$ " and then rolls 1 and 4, the sum of 1 and 4 is not equal to  $5 + 3$ . However, if the player rolls 4 and 4, the sum of 4 and 4 is equal to  $5 + 3$ . The player then completes the equation on his or her page:  $5 + 3 = 4 + 4$ . The player must then use small objects to prove that the equation is correct (e.g., a group of 5 buttons plus a group of 3 buttons is equal to a group of 4 buttons plus a group of 4 buttons).

$$5 + 3 = 4 + 4$$



- The first player to prove that he or she has a correct equation wins the game.