

# Decimal Fraction Buddies

**You need**  a classmate     transparent counters in 2 colours     a calculator  
 a photocopy of the Decimal Fraction Buddies game board  
 a photocopy of a blank Decimal Fraction Buddies game board

## Game

In this game, you have to try to find 2 decimal fractions that add together to make 1 whole. Play this game with a classmate, following these steps:

- The first player finds 2 numbers on the board that add up to 1 and puts a counter on each number.
- If the second player thinks that the 2 numbers don't add up to 1, they say "Challenge!" and check on the calculator. If the answer is wrong, the first player has to take those two counters off the board and it's the other player's turn. If the answer is challenged but it's correct, the first player gets another turn.
- The players take turns to find 2 numbers on the board that add up to 1.
- The players keep taking turns until one player makes a complete path from one side of the board to the opposite side with their counters. The paths do not have to be in a straight line, but all the counters must connect. Counters joined by one of the centre lines are counted as connected.

## Activity

1. After you have played the game, use your photocopy of the blank game board to make a game where the 2 numbers must add up to 0.5.
2. Describe how you know what numbers to put in each circle.

