

# DECIMAL DIGIT DILEMMA

*Decimal Digit Dilemma is a fun decimal place value game which relies on both luck and skill to get the closest number to 0.5. It is great for helping to develop decimal place value skills and reading/writing decimal numbers. This game is similar to the Place It! Decimal Game, but uses numbers with up to 3 decimal places.*

**Level of difficulty:** ②

**Number of players:** 2+

**Learning:** Ordering numbers to 3 decimal places, decimal place value, strategy

## You will need

- a set of digit cards (0-9) per player, alternatively you can use a set of playing cards with the face cards and number 10s removed.
- a Decimal Place Value Game board for each player
- a calculator (optional)

## Instructions

- Shuffle the digit cards, or playing cards, and place them face down in a pile.
- Each player takes a card from the pile and places it on a free space on their Decimal Place Value board when it is their turn. Remember – you cannot place a digit in the ones column, as the value 0 is already there.
- No player can move any digit card once they have placed it on their board.
- The winner is the player to get closest to 0.5 once all the digits have been placed.
- Each player will need to work out the difference between their number and the number 0.5. A calculator could be used for this.

## Variations

- Choose a different target number (it could be any number up to 10) and allow players to place a digit in the ones column.
- Alternative winning strategy: the player with the largest, or smallest, number once all the digits are placed is the winner.

## Example of Play

- Captain's first card is a 7 and he places the card in the tenths place on his board. On his second turn, he takes a 3 and places it in the thousandths place. On his third turn, he gets a 1 and places it in the hundredths place. His final number is 0.713.
- Newton's first card is a 4 and he places it in the hundredths place. His second card is a 6 and he places it in the thousandths place. His final card is a 3; it goes in the tenths place. His final number is 0.346. He is the closer than the Captain to the number 0.5, so he wins.



ONES

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TENTHS

HUNDREDTHS

THOUSANDTHS



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