

# Fraction and Decimal Card Game

By  
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# WHY CHOOSE FRACTION AND DECIMAL FOR THIS CARD GAME

## RESEARCH SHOWED THAT:

Students view fraction as isolated digits, treating the numerator and denominator as a separate entities that can be operated on independently and one of the major source of difficulty in students' learning in fraction can be multiple meanings like part/whole, decimals, ratios, or quotients. Students understanding of fraction are very rote, limited and dependent on the representational form.

Prof. R. G. Kothari, Professor in Education, Former Vice Chancellor, VNSG University, Surat, India

# RESEARCH

- Fractions are too difficult to learn. Fractions can be a difficult concept for a child to grasp. Misconceptions
  - They are counter-intuitive and unnatural.

• Using game as a pedagogical approach have proven to be most suitable for the primary school learners (Aldridge & Badham, 1993). Research has shown that it is one of the most effective pedagogical approach to get pupils to be engaged in their learning (Davies, 1995). My teaching experiences as a lecturer using this method to deliver the content in the MTE3109 and MTE3111 papers for the PISMP programme since 2003 have met with many successes year after year. I usually conduct a 5 hour lecture session/tutorial/practical which almost always uses game as part of my delivery ensemble. My trainees became good at creating games for their teaching practice or for their coursework

## WHY DESIGN FRACTION DECIMAL CARD GAME?

- **Fun for students to play and make**
  - ☐ **Effective, authentic and challenging way to make learning fractions/decimals more engaging to develop understanding of fractions and decimals,**
  - ❖ **Lessen the tension the student feels when dealing with fractions.**
  - ✓ **Having the students help to create the game also reinforces the information they can retain about fractions.**

**Kathy Foust**

# WHY FRACTION DECIMALCARD GAME (CONTD.)

- enhance your teaching experience as well ... who doesn't want to hear, "Oh, boy! Time for fractions!" instead of a stifled groan when math time comes around?
- ❖ Dull and boring is how most kids think of learning fractions and decimals
- ❑ Addresses Misconceptions in fractions and decimals

# WHAT DOES THE CARD LOOK LIKE??

## VERSION 1.1

**VERSION 2.2**



**VERSION 3.3**

How to play the game???

[Rule of Games.doc](#)

**PUPILS ENJOYING THE GAME**

Fraction Card Game Pic

What they say about  
the Fraction n  
Decimal Card  
Game.doc

# **•PUPILS COMMENT ON THE FRACTION AND DECIMAL CARD GAME**

- “ Saya suka main”**
- “main sambil menggunakan otak seratus peratus”**
- Permainan yang menyenangkan”**

**“membuka dan menguji minda ”**

**“dapat belajar dengan cepat”**

**“menyenangkan pikiran”**

**“mengeratkan siratulrahim”**

**“membantu kita dalam**

**peperiksaan”**

**“ bagi saya faham ”**

**“ boleh mengetahui pecahan  
dengan senang ”**

**“ mengisi masa lapang ”**

**“ sangat ceria ”**

**“ tidak pening ”**

# HOW TO PLAY

**SUGGESTED GAMES**

**SEE VIDEOS**



THANK YOU

HAVE FUN  
PLAYING THIS  
GAME