

# Rational Match

Rational Match is played like a memory game beginning with 16 cards turned face down. On the face of each card is a fraction, decimal, or percent. The object of the game is to find equivalent matches.



Before you begin this activity, you will need the Rational Number Rampage App loaded on your TI-73 Explorer™. Read the instructions and download the App from [education.ti.com/apps](http://education.ti.com/apps)

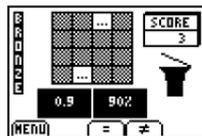
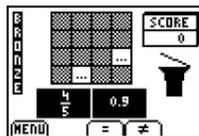
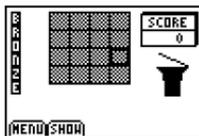
## Engage

1. Press **[APPS]** and select RRampage, then press any key to go through the beginning screens and press **[2]**: Rational Match
2. Press <HELP> (**[GRAPH]**) to review the directions to the game  
Use <NEXT> (**[GRAPH]**) to go step-by-step through the screens
3. Press <QUITHELP> (**[Y=]**) to quit the Help section

## Explore

1. Select level of play by using the **[↓]** **[↑]** keys:  
**Bronze** is the easiest, with fractions in halves, 3rds, 4ths, 5ths, 6ths, and 8ths  
**Silver** and **Gold** levels contain fractions with 12ths and 16ths  
**Gold** level includes some fractions greater than one
2. Press **[ENTER]**
3. Using the **[←]** **[↓]** **[↑]** **[→]** keys, select a card (shown by a heavy box around the card)
4. Select <Show> (**[WINDOW]**)

Continued on back



# Rational Match

- Repeat steps 3 and 4 to show a second card
- Determine whether the two cards are equivalent
  - Select  $\Leftrightarrow$  by pressing the **ZOOM** key or
  - Select  $\neq$  by pressing the **TRACE** key
- If the cards are equal, they are removed from the game. If they are not equal, they are returned to their positions



## Extend

- Continue play until all the cards are gone
- The object is to get the lowest score possible, so there is no score for matching cards that are equal

## Scoring:

The object of the game is to keep your score as low as possible. Points are given after your first turn.

| Level  | Cards are equal & your answer is |       | Cards are not equal & your answer is |       |
|--------|----------------------------------|-------|--------------------------------------|-------|
|        | =                                | not = | =                                    | not = |
| Bronze | 0                                | 6     | 6                                    | 0     |
| Silver | 0                                | 4     | 4                                    | 0     |
| Gold   | 0                                | 2     | 2                                    | 0     |