| First Name: | Last Name: | Class: |
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| i ii 3t i vaii i C. | Last Name. | Olass. |

Exploring Equivalence with Rational Numbers: Part 1 Fractions less than or equal to 1

Learning Objectives - Students will be able to:

- Use different representations to recognize and make equivalent pairs of fractions.
- Explain at least one strategy for knowing that two different representations model equivalent fractions.

LEVEL 1

| 1. Open the Fraction Matcher simulation. Take 5 minutes to explore the Lev | | | |
|--|---|--|--|
| | game. With a partner, talk about a) what you noticed and b) how you know that two | | |
| | representations are equivalent. Write your ideas in the space below and be ready to | | |
| | share your ideas in a class discussion. | | |

LEVEL 2

- 2. <u>Before you play the Level 2 game</u>, study the fraction models at the bottom of the screen and complete the table below.
 - a. In the columns below each fraction, draw all the representations from the bottom of the screen that are equivalent to each number.

| $\frac{1}{2}$ | 3/4 | $\frac{1}{3}$ | $\frac{2}{3}$ |
|---------------|-----|---------------|---------------|
| Example: | | Example: | |

b. Next to each representation you drew above, write the fraction represented by the shaded sections.





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| Exploring Equivalence with Rational Numbers: Part 1 | | | |
| | Fractions less than or ed | qual to 1 | |
| | | en the numerators and column? Write your ideas in the | |
| | | | |
| d. Now, Pa partner. | ir/Share! Compare and discuss | your answers above with your | |
| 3. Now, play the Lev | el 2 game until you earn at least | 10 out of 12 points. If you don't | |
| get at least 10 poir as necessary. Ask of equivalent fracti | your partner or teacher a questi | new game. Play as many times on if you need help making pairs | |
| , | ram below by drawing represent choose to use visual representa | · | |
| | | | |
| 5. Explain one thing | you learned while playing Level | 2 | |
| | | | |
| 6. Complete the sent | ence below | | |
| I am most pro | ud of | | |