

Mystery Fractions, Part Two— Estimating and Refining

Name: _____

You will identify “mystery” fractions on a number line using as few guesses as possible.

EXPLORE

1. Open **Mystery Fractions Part Two--Estimating and Refining.gsp**. Go to page “Game A” and press *New Problem*. What is the location of the mystery fraction?

Choose **Make Fraction** from the Custom Tools menu.

Follow these steps to make a fraction:

- Click a number. This is the numerator.
- Click another number. This is the denominator. Your labeled fraction will appear on the number line!

2. Use the **Make Fraction** tool to identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

3. Go to page “Game B” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

4. Go to page “Game C” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

5. Go to page “Game D” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

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6. Go to page “Game E” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

7. Go to page “Game F” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

8. Go to page “Game G” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

9. Go to page “Game H” and press *New Problem*. Identify the mystery fraction in as few guesses as possible. List your guesses and the mystery fraction below.

Guesses: _____

Mystery Fraction: _____

10. Explain what strategies you used to identify the mystery fractions.
