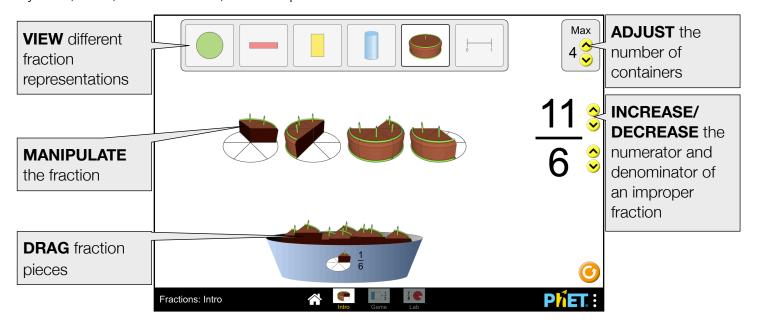


Fractions: Intro

The *Fractions: Intro* simulation allows students to engage with and compare multiple representations of fractions and test their understanding on the Game screen.

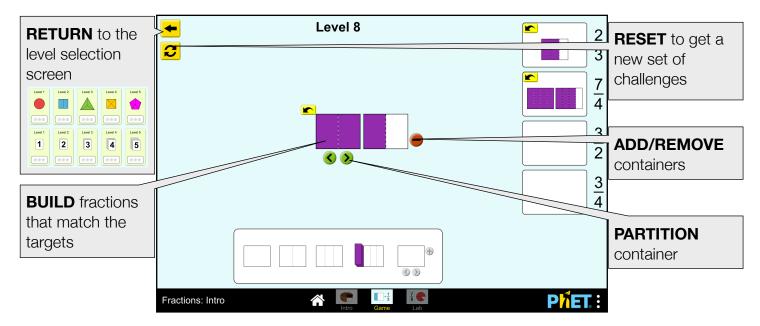
Intro Screen

In the Intro screen, students can build their own fraction and see it represented as a pie, rectangle, cylinder, cake, or number line, and compare it to the numerator and denominator.



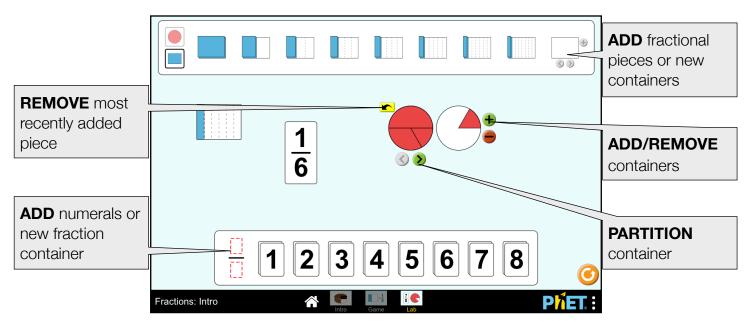
Game Screen

This Game screen can also be found in the Build a Fraction simulation.



Lab Screen

The Lab screen can also be found in the Build a Fraction simulation.



Suggestions for Use

- Allow students to explore the Intro screen, then facilitate a discussion about what the top and bottom numbers of the fraction mean. Use this discussion to introduce the terms numerator and denominator, and use student suggestions for defining those terms.
- Assign specific Game levels to address your learning goals.

Sample Challenge Prompts

- Play on the Intro screen. What does the top number of the fraction mean? What does the bottom number mean?
- If you are building a fraction, where can you place the fraction pieces? Does it matter which container you put it in?
- Using the Lab screen, create multiple fractions that equal one. Challenge yourself to use differently sized pieces.

See all published activities for Fractions: Intro here.

For more tips on using PhET sims with your students, see Tips for Using PhET.