

# Lesson 17: True or False?

## Standards Alignments

Addressing 5.NF.A.1

### Teacher-facing Learning Goals

- Add and subtract fractions and mixed numbers with unlike denominators.

### Student-facing Learning Goals

- Let's create a True or False.

## Lesson Purpose

The purpose of this lesson is for students to apply their understanding of adding and subtracting fractions with unlike denominators to create a True or False activity.

This lesson offers teachers the opportunity to listen to ways in which students make use of structure and repeated reasoning to design a True or False. After the warm-up, three activities are given, but it is not expected that students do all three. As the activities progress, there is one additional problem missing from each True or False. The choice of which activities to use is left to the teacher based on how much scaffolding the students may need. This lesson can take 1–2 days if students facilitate their creations with other groups.

### Access for:

#### Students with Disabilities

- Representation (Activity 1)

#### English Learners

- MLR8 (Activity 1)

## Instructional Routines

True or False (Warm-up)

### Lesson Timeline

Warm-up	10 min
Activity 1	15 min
Activity 2	15 min
Activity 3	15 min

### Teacher Reflection Question

If you were to teach this lesson over again, what activity would you redo? How would your proposed changes support student learning?

Lesson Synthesis 10 min

Cool-down 5 min

---

## Cool-down (to be completed at the end of the lesson)

 5 min

Reflection

### Standards Alignments

Addressing 5.NF.A.1

### Student-facing Task Statement

In math class, it's important to listen to other people's ideas. What was something you learned today by listening to someone else's ideas?

### Student Responses

Sample response: Today when we were discussing an equation to include to finish a true or false I learned a different strategy to use when I'm multiplying by 7.