GRADE 3 • MODULE 5

## Topic D

## Fractions on the Number Line



In Topic C, students compared unit fractions and explored the importance of specifying the whole when doing so. In Topic D, they apply their learning to the number line. Number bonds and fraction strips serve as bridges into this work. Students see intervals on the number line as wholes. They initially measure equal lengths between 0 and 1 with their fraction strips. They then work with number lines that have endpoints other than 0 and 1 or include multiple whole number intervals. This naturally transitions into comparing fractions with the same denominator, as well as fractions and whole numbers on the number line. As students compare, they reason about the size of fractions and contextualize their learning within real world applications.

## A Teaching Sequence Toward Mastery of Fractions on the Number Line

Objective 1: Place fractions on a number line with endpoints 0 and 1.
(Lesson 14)
Objective 2: Place any fraction on a number line with endpoints 0 and 1.
(Lesson 15)
Objective 3: Place whole number fractions and fractions between whole numbers on the number line. (Lesson 16)

Objective 4: Practice placing various fractions on the number line.
(Lesson 17)
Objective 5: Compare fractions and whole numbers on the number line by reasoning about their distance from 0.
(Lesson 18)
Objective 6: Understand distance and position on the number line as strategies for comparing fractions. (Optional.)
(Lesson 19)

