

# Fractions Lesson 6

## Spatial Arrangements

### with Simple Fractions and Mixed Numbers

#### Teacher Guide

## Symbols and Concepts

- Simple fraction
- Opening simple fraction indicator
- Horizontal fraction line
- Closing simple fraction indicator
- Mixed number
- Numeric indicator (non-use)
- Opening mixed number indicator
- Closing mixed number indicator
- Plus sign (+)
- Minus sign (−)

## Objectives

The student will be able to:

- Read and write spatially aligned addition and subtraction problems containing simple fractions
- Read and write spatially aligned addition and subtraction problems containing mixed numbers

## Teaching Tips

- Before opening any BRF files in Duxbury,
  - Go into the Global menu.
  - Select "**Formatted Braille Importer.**"
  - Select the box for "**Read formatted braille without interpretation**" at the top of the window. This will ensure that nothing is changed when opening the BRF files.
- This focused lesson has one version and does not include variables.
- The lesson is limited to addition and subtraction problems, as it is very rare to multiply or divide fractions or mixed numbers using a spatial arrangement.
- Only horizontal fraction lines are shown to reduce the number of examples, but you could also use diagonal fraction lines.

- Please notice that the numeric indicator must not be used with the whole number in a spatial arrangement.
- In addition to the embedded activities within the focused lesson, there is one follow-up activity.
- The "L6-Fractions-Problems-Only.brf" braille document may be used to supplement the lesson since it contains all of the examples in braille.
- The answers for the follow-up activity are available in SimBraille and braille.
- If needed, remind the student to check their work during writing activities.
- You may want to have the student practice reading the spatial arrangements with fractions and mixed numbers as well. This can be done by using the answer key.
- We maintain a list of [commercially available materials](#) that can be used to supplement instruction.

## Optional Materials

- Fraction cubes
- Fraction number lines
- Fraction tiles
- Fraction towers