Lesson 2
Fractions

NAME:

Start by navigating to the Online Lesson for instructions.

Objectives

- Write a fraction in simplest form
- Write mixed numbers as improper fractions
- Perform all operations on fractions, including mixed numbers: adding, subtracting, multiplying, dividing, and raising to a power

Why?

We learn to work with fractions so we can understand and compare parts of a whole. Real-world problems like splitting a pizza, adjusting a recipe, or figuring out discounts and measurements all use fractions. Learning fractions builds the skill you will need for algebra, geometry, and everyday decision-making with numbers.

Explore

Fractions

Fill in the notes as you watch the video in the Online Lesson.

- _____ must have the same _____ in order to add or subtract them.
- Write mixed numbers as improper fractions _____ multiplying or dividing.

> It is helpful to rewrite all mixed numbers as improper fractions before performing any operations.

- Fractions do not need to be written as mixed numbers, but they do need to be _____.
- When directions say _____, calculate the value by performing the given operation on the fraction and then write it in simplest form.
- Simplest form means that the _____ of the numerator and denominator is _____.

Example 1

Complete the example as you watch the video in the Online Lesson.

Evaluate.

$$2\frac{4}{7}-\left(-\frac{2}{3}\right)$$

Implement

Explain

- Rewrite the mixed number as an improper fraction
- Simplify the double negative and find the LCD
- Write fractions with the LCD
- Add the numerators

Example 2

Complete the example as you watch the video in the Online Lesson.

Evaluate.

$$-3\frac{1}{5}\div\left(1\frac{1}{3}\right)$$

Implement

Explain

- Rewrite mixed fractions as improper fractions
- Take the reciprocal of the fraction after the division symbol
- Simplify fractions

Practice

Evaluate. Show your work. Answers do not need to be written as mixed numbers.

1) $-4\frac{2}{3}-\left(-\frac{4}{5}\right)$

2) $3\frac{3}{4}\cdot 2\frac{2}{13}$

3) $\frac{7}{12}-\frac{1}{3}$

4) $\frac{9}{10}\div 1\frac{1}{2}$

5) $2\frac{3}{4}-\frac{5}{6}$

6) $-3\frac{2}{5}\div 1\frac{2}{7}$

Evaluate. Show your work. Answers do not need to be written as mixed numbers.

7) $\frac{3}{4} \cdot 2\frac{2}{9}$

8) $-\frac{2}{5} - 5\frac{1}{3}$

9) $\frac{5}{9} - \frac{5}{6}$

10) $\frac{8}{21} \div \frac{9}{14}$

11) $2\frac{2}{5} \cdot \frac{9}{16}$

12) $4\frac{2}{3} - 1\frac{1}{8}$

To continue, return to the Online Lesson.