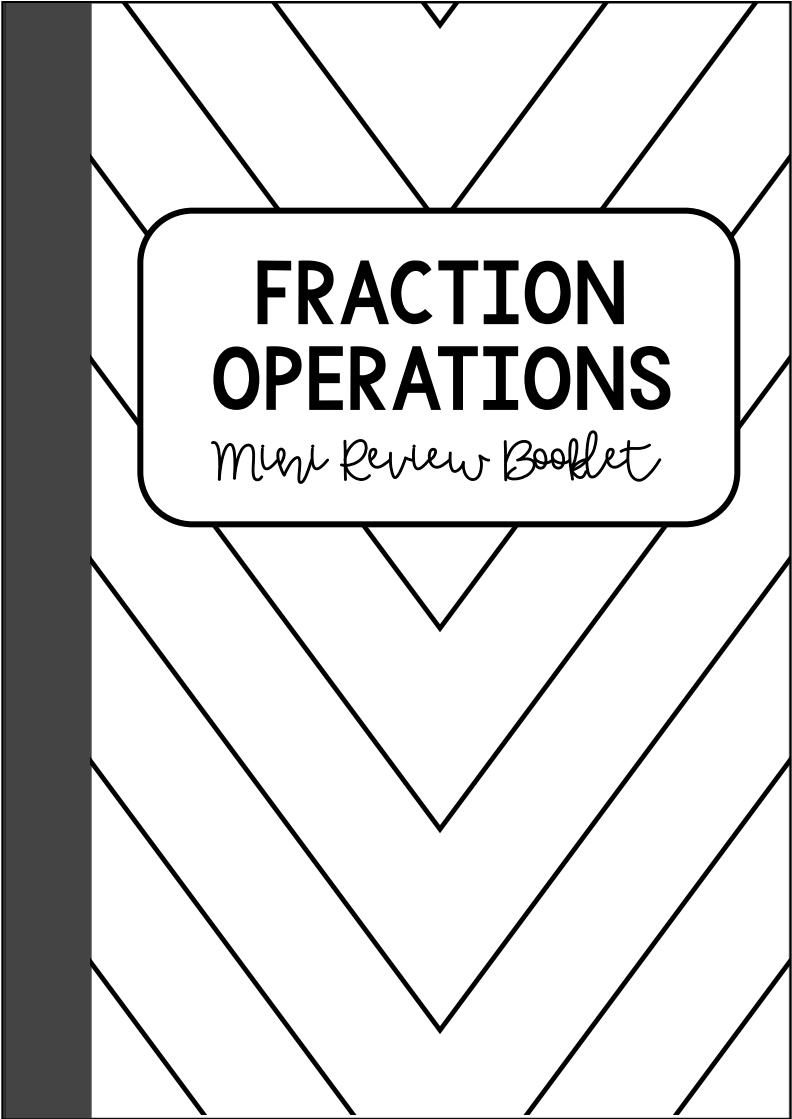
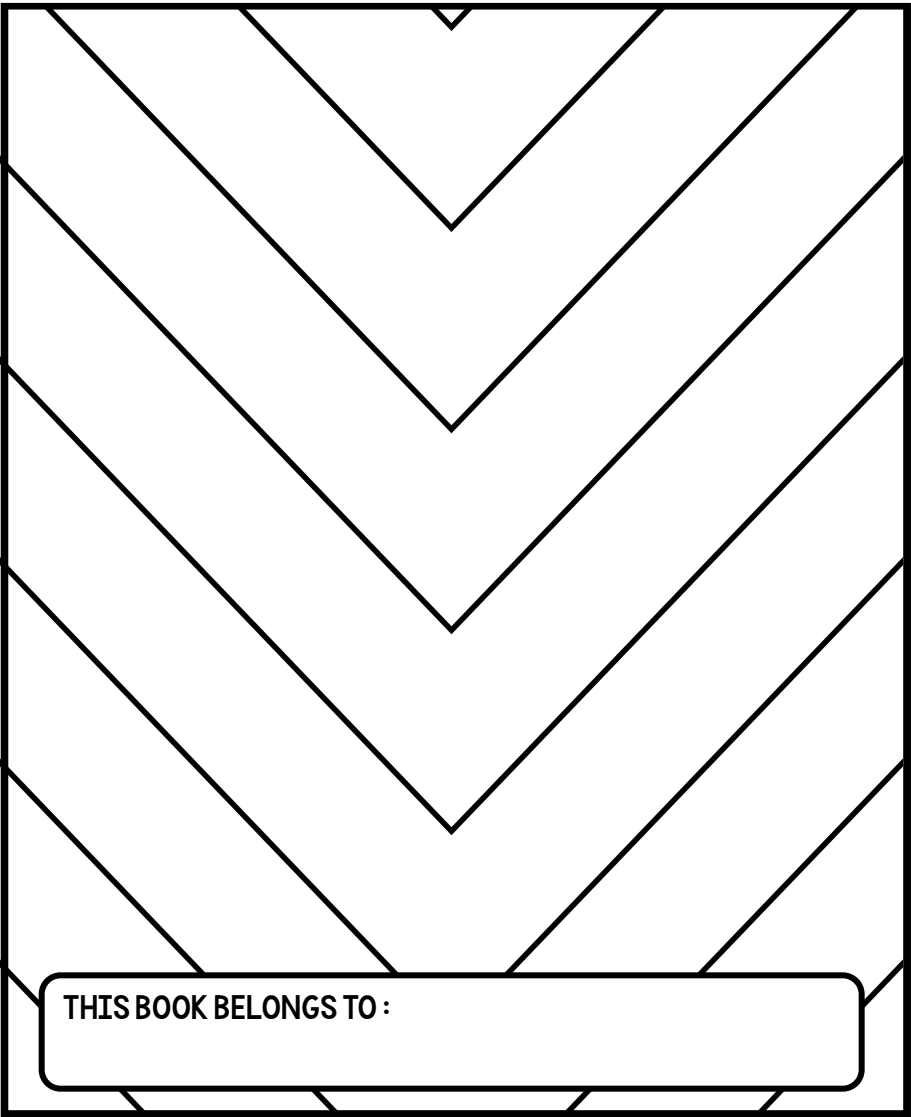


FRACTION OPERATIONS {MINI BOOK} WITH TABS: FIVE TABS + FRONT & BACK COVERS



FRONT COVER



BACK COVER

# FRACTION OPERATIONS {MINI BOOK} WITH TABS: FIVE TABS + FRONT & BACK COVERS

## Assembly Instructions :

1. Print all four pages of this document. If you want the front and back covers to be on colored paper or cardstock, print them first.

2. Staple the book together on the far left side in this order :

- Front cover
- Tab page 1
- Tab page 2
- Tab page 3
- Tab page 4
- Tab page 5
- Back cover
  - The back cover should be stapled on facing outward so the design and the "This book belongs to" face outward.

### *What is a fraction?*

- A number that is not a whole number.

## Part Whole

### *Equivalent Fractions :*

- Two equal fractions.
- Found by multiplying or dividing the numerator and denominator of a fraction by the same number.

### *Simplifying Fractions:*

- Dividing the numerator and denominator of a fraction by the GCF of the two numbers.

FRACTION  
CONCEPTS :

TAB PAGE 1

# FRACTION OPERATIONS {MINI BOOK} WITH TABS: FIVE TABS + FRONT & BACK COVERS

## Adding Fractions:

- Change mixed numbers to improper fractions.
- Find the least common denominator (LCD) of the fractions.
- Re-write each fraction using the common denominator. Don't forget to change the numerator as well, by multiplying by the same factor used to take that denominator to the LCD.
- Add the numerators and keep the denominators the same.
- Simplify the answer if necessary.

*Example:*

$$4\frac{3}{5} + 2\frac{1}{4}$$

$$4\frac{12}{20} + 2\frac{5}{20} = 6\frac{17}{20}$$

ADDING  
FRACTIONS:

## Subtracting Fractions:

- Change mixed numbers to improper fractions.
- Find the least common denominator (LCD) of the fractions.
- Re-write each fraction using the common denominator. Don't forget to change the numerator as well, by multiplying by the same factor used to take that denominator to the LCD.
- Subtract the numerators and keep the denominators the same.
- Simplify the answer if necessary.

*Example:*

$$12\frac{2}{3} - 5\frac{1}{2}$$

$$12\frac{4}{6} - 5\frac{3}{6} = 7\frac{1}{6}$$

SUBTRACTING  
FRACTIONS:

TAB PAGE 2

TAB PAGE 3

# FRACTION OPERATIONS {MINI BOOK} WITH TABS: FIVE TABS + FRONT & BACK COVERS

## Multiplying Fractions:

- Re-write mixed numbers as improper fractions.
- Multiply the numerator by the numerator.
- Multiply the denominator by the denominator.
- Simplify your answer.

Example:

$$2\frac{1}{2} \cdot 2\frac{1}{4}$$

$$\frac{5}{2} \cdot \frac{9}{4} = \frac{45}{8} = 5\frac{5}{8}$$

MULTIPLYING  
FRACTIONS:

TAB PAGE 4

## Dividing Fractions:

- Re-write mixed numbers as improper fractions.
- Find the reciprocal of the divisor (the second fraction).
- Replace the division symbol with a multiplication symbol.
- Multiply the numerator by the numerator.
- Multiply the denominator by the denominator.
- Simplify your answer.

Example:

$$4\frac{3}{4} \div 1\frac{1}{3}$$

$$\frac{19}{4} \div \frac{4}{3} = \frac{19}{4} \cdot \frac{3}{4} = \frac{57}{16} = 3\frac{9}{16}$$

DIVIDING  
FRACTIONS:

TAB PAGE 5