

Fractions Cheat Sheet

To change a decimal to a fraction

- Say it to write it

To change a fraction to a decimal

- Top divided by the bottom

Adding

- **Must have common denominators**
- Add across the top
- Keep the bottom

Subtracting

- **Must have common denominators**
- Subtract across the top
- Keep the bottom

Multiply

- Covert to improper
- Cancel like terms
- Multiply the top
- Multiply the bottom
- **Simplify**

Divide

- Convert to improper
- Keep the first fraction
- Change to multiplication
- **Flip the second fraction (reciprocal)**

Converting Improper Fractions

- How many times can the bottom go into the top?
- What is left over?
- Place over the bottom

Converting Mixed Numbers

- Bottom times the whole number plus the top
- Place over the bottom

Signs rules

Adding

1. Like signs

- **Add** the absolute value
- Keep the same sign

2. Different signs

- **Subtract** the absolute value
- Keep the sign of the larger number

Zero Pair

When you add two opposites, you get zero

Subtracting

Add the opposite

Multiply and Divide

1. Like signs

- Positive answer

2. Different signs

- Negative answer

Any number divided by itself = 1

Any number divided by 1 = itself