Integer Rules

Add

Same Sign

Add and take the sign

$$(-3) + (-4) = -7$$

 $3 + 7 = 10$

Different Sign

Subtract and take the sign of largest absolute value

$$(-5) + 9 = 4$$

 $(-13) + 8 = -5$

Subtract

Change to add the opposite

$$(-3) - (+4) = (-3) + (-4)$$

$$(-5) - (-9) = (-5) + (+9)$$

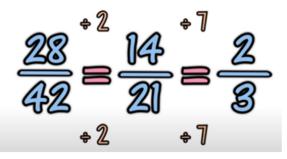
Multiply/Divide

Same Sign Positive answer Different Sign Negative answer

Reducing Fractions

Method 1

- 1. Find a number that can divide the top and bottom.
- 2. Divide top and bottom by that number.
- 3. Repeat from step 1 until there is no number, greater than 1, that can divide the top and bottom.



Method 2

- 1. Find the Greatest Common Factor (GCF)
- 2. Divide top and bottom by GCF.

