## **1-2 Factoring Polynomials**

### **Objectives:**

**1-2a:** I can factor a polynomial by grouping.

1-2b: I can factor a trinomial.







# What two numbers multiplies to 15 that also add to 8?

What two numbers multiply to -15 that also add to -2?

August 24, 2018





#### How to Factor a Quadratic

## Factoring quadratics in the form $ax^2 + bx + c$

- 1. Factor out the GCF
- 2. Multiply a and c
- 3. Find two factors of ac that add to b
  \*If ac is negative, factor.s must have opposite signs
  \*If ac is positive, factors must have same (+ or -) signs
- 4. Re-write equation with b split up into factors
- 5. Find the GCF by grouping
- 6. Factor the GCF of the whole

