Factoring Linear Expressions

Vocabulary

Monomial - an expression that has a number, variable, or a product of number(s) and variable(s)

Examples: 2, a, 2a, 2ab

Factor - a number or quantity that is multiplied to make another number.

Examples: 2 and 3 are factors of 6.

2 and n are the factors of 2n

Factoring Linear Expressions

Step 1: Write the factorization of each term.

Step 2: Circle the common factors. This is the GCF.

Step 3: Rewrite in factored form as a product of the

GCF and the sum/difference of its remaining factors.

Note: if there is not a GCF, the expression cannot be factored.

Find the GCF of each pair, then write in factored form.

12:
$$3 \times 2 \times 2 \times 2 \times c$$
28: $7 \times 2 \times 2 \times c$
4(3+7c)

Find the GCF of each pair, then write in factored form.

2) 56g - 84gh

Factor each expression.

$$2(7\times -8)$$

Write an expression in factored form to represent the area of the total rectangle.

$$18x + 12$$
 standard form $6(3x + 2)$