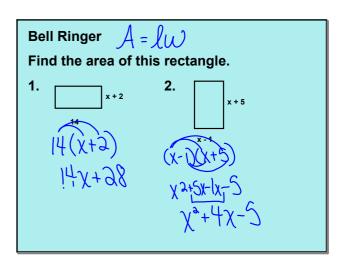
Algebra II **Factoring GCF and trinomials** with a=1



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Remember when we found two numbers that had a product but added to be another number? We are going to use that today.

1. Product 16 and sum 10 8 and 2



2. Product -20 and sum -8



$$y = \underline{d}x^2 + \underline{b}x + \underline{c}$$
So we find the product of c

So we find the product of c and the sum of b

Let us Factor...

1.
$$x^2 + 6x + 8$$

2. $x^2 + 12x + 35$
 $(x + 5)(x + 7)$
 $(x + 6)(x + 7)$
 $(x + 6$

3.
$$x^{2} + 2x - 8$$
4. $x^{2} - 5x - 14$

$$-\frac{8}{-2 \cdot 4} \qquad (X-7)(X+2)$$

$$(X+4)(X-2)$$

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5.
$$x^4 + 6x^3 + 5x^2$$
 6. $2h^2 - 12h + 18$

$$\chi^2(\chi^2 + 6\chi + 5) \qquad 2(h^2 - 6h + 9)$$

$$\chi^2(\chi + | \chi \chi + 5) \qquad 2(h-3)(h-3)$$

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Now we are going to do a matching exercise with your new partner.

$$x^{2} + 14x + 24$$
 (x+2)(x+12)
 $x^{2} + 10x + 24$ (x+4)(x+6)
 $x^{2} - 5x - 24$ (x-8)(x+3)
 $x^{2} + 10x - 24$ (x+12)(x-2)
 $x^{2} - 11x + 24$ (x-3)(x-8)

Conclusion

- 1. What is the first thing you always check for when you factor?
- 2. You have to find the product of ___ and the sum of ___ .
- 3. Write down on a post it your factoring ability. (1 don't understand at all to 5 awesome) Then write a sentence of a question you need answered and put your initials on it. Place on door as you exit.

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Assignment

Factoring GCF and trinomials with a=1 Worksheet

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x^{2} + 14x + 24
x^{2} + 10x + 24
x^{2} - 5x - 24
x^{2} + 10x - 24
x^{2} - 11x + 24
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