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- When factoring a trinomial, we need to look at the second term (b) and the third term (c) to help find the factors.

| Sum <br> (2 $\mathbf{2}^{\text {nd }}$ Term) | Product <br> ( $3^{\text {rd }}$ Term) | INTEGERS |
| :---: | :---: | :---: |
| Negative | Negative | Bigger \#(-) <br> Smaller \# (+) |
| Negative | Positive | Both Negative <br> numbers |
| Positive | Negative | Bigger \# (+) <br> Smaller \# ( - ) |
| Positive | Positive | Both Numbers <br> Positive |

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| Connect | Factoring Trinomials |
| :---: | :---: |
|  | Factor $\mathrm{y}^{2}-5 y+4$ |
| $\begin{gathered} 4 \\ 1.4 \\ 2 \cdot 2 \end{gathered}$ | Steps: <br> Find two numbers that add up to the middle term <br> Now, those same two numbers need to multiply to give you the third term <br> Pick the signs from the chart that was provided. <br> Place the numbers as constants in the two binomials |


| Connect | Factoring Trinomials |
| :---: | :---: |
| Factor $x^{2}+6 x+8$ |  |
| $\begin{gathered} 8 \\ \because .8 \\ 2.4 \end{gathered}$ | Steps: <br> Find two numbers that add up to the middle term <br> Now, those same two numbers need to multiply to give you the third term <br> Pick the signs from the chart that was provided. <br> Place the numbers as constants in the two binomials |

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| Practice | Yactor each of the following |
| :---: | :---: |
| $g^{2}-4 g+3$ <br> $(9-1)(9-3)$ | $(x+4)(x-3)$ |


| Connect | Factoring Trinomials |
| :---: | :---: |
| Factor $x^{2}+2 x-15$ |  |
| $\begin{aligned} & 15 \\ & 8.15 \\ & 3.5 \end{aligned}$ | Steps: <br> Find two numbers that add up to the middle term <br> Now, those same two numbers need to multiply to give you the third term <br> Pick the signs from the chart that was provided. <br> Place the numbers as constants in the two binomials |

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| Practice | YOU TRY! |
| :---: | :---: |
| $y^{2}-4 y-12$ <br> $(y-6)(y+z)$ | $(z+6)(z+3)$ |

## Textbook Questions:

Page 166 \# 7, 11
Page 167 \# 14, 15

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