3.6 Polynomials of the Form $ax^2 + bx + c$

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11:00 AM

use the same strategies as for binomials

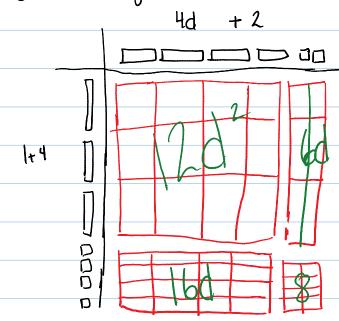
If the only difference is the coefficients of the variables are NOT 17

$$(3d+4)(4d+2)$$

METHOD 1 Distributive Property (Expand and Simplify)

$$(3d + 4)(4d + 2) \leftarrow$$
= $12d^2 + 6d + 16d + 8$
= $12d^2 + 22d + 8$

METHOD 2: Algebra Tiles



- L draw a grid 2. Write in dimensions
- 3. SOLVE

METHOD 3: Area Model

- 1. draw a rectangle
- 2. Write in dimensions
- 3. divide into 4 smaller rectangles 4 calculate

$$= |2d^2 + |6d + 6d + 8$$

$$= |2d^2 + 22d + 8$$

$$\#$$
 Now factor $ax^2 + bx + c \rightarrow (ax+b)(cx+d)$

$$\frac{\text{Ex.#}}{(a.)} \frac{\text{Hg}^{2} + (\text{IIg} + 6)}{\text{Lg}^{2} + (\text{IIg} + 3)} \\
= (\text{Ig} + 2)(\text{Ig} + 3) \\
= (\text{Ig} + 3)(\text{Ig} + 3) \\$$