To know for the Test: Factors and Products

Test Date: Friday, March 2nd

① Factor using strategies
    – Find GCF
      – Factor by decomposition (add to middle term, multiply to m.n.)
           * include 2-variable trinomials
    – Shortcuts:
         • Perfect square trinomials
$$ax^2 + bx + c = (\sqrt{ax^2} \pm \sqrt{c})^2 \quad \Big\} \text{ section } 3.8$$
         • Difference of squares
$$a^2 - b^2 = (a+b)(a-b)$$

② Expand
    – single distributive property (feed the chickens)
    – distributive property with 2 Binomials (F.O.I.L)
    – distributive property with polynomials $(ax+b)(cx^2+dx+e)$
    – distributive property within an equation

      *Simplify by collecting <u>like terms</u> *
                ↳ same variable with same exponent
                ie $2x + x = 3x$
$$2x^2 + x = 2x^2 + x$$

<u>Extra practice</u>:
p. 155 #8 ade, 14c   (3.3)
p. 180 # 2a (no tiles), 5ace, 6, 7cd, 8ad (3.3 ¿ 3.5)
p. 186 # 4a, 5ab, 8ab, 9ab, 14 (3.7)
p. 200 # 24ab, 25, 26, 32, 33ab, 34ab (3.6, 3.7, 3.8)