Booklet for factoring and solving quads by factoring

Page 1: Title

Page 2: Tell the story of Barbra the thief.

Page 3: I spy factoring
Factor the following polynomials. Leave yourself notes about the I spy process.
1) $4x^2 - 8x$ 2) $12x^{10} - 8x^7$ 3) $-6x^3 + 8x^2 - 10x$

Page 4:
Describe the thought process for either X marks the spot or the area model for factoring trinomials

Page 5:
Factor the following polynomials. Leave yourself notes about your thought process.
4) $x^2 - 9x - 22$ 5) $x^2 + 12x - 45$ 6) $x^2 - 15x + 56$

Page 6:
Describe how zero dominates in the multiply game and how you use it to solve quadratic equations.

Page 7:
Solve the following equations by I spy factoring.
7) $5x^2 - 10x = 0$ 8) $15x^2 + 20x = 0$

Page 8:
Solve the following polynomials by X marks the spot or area model.
9) $x^2 - 9x - 70 = 0$ 10) $x^2 + 15x + 50 = 0$