Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CC Algebra

**Factoring Practice – All Methods**

1. p2 + 2p – 35
2. 6x + 27b
3. x2 – 9
4. 6x2 + 17x + 7
5. 4x2 – 100
6. n3 + 9n2
7. x3 + 4x2 – 3x – 12
8. b2 + 18b + 80
9. -5y2 – 22y – 8

1. 3y2 + 10y2 – y
2. z2 – 4z – 21
3. 3z2 + 26z – 9
4. x2 – 11x + 28
5. 3t2 + 16t – 12
6. 25x2 – 30x + 9
7. x2 – 3x + 4ax – 12a
8. If the area of the rectangle is represented by 3x2 + 14x + 15
   1. What are the dimensions of the rectangle?
   2. What is the area of the rectangle if x = 2?
9. A projector displays an image on a wall. The area (in square feet) of the projection is represented by x2 – 8x + 15.
   1. If the width of the projections is x – 3 what is the height?
   2. Find the perimeter of the projection when the height of the wall is 8 feet.
10. Find the side length of a square whose area is 25r2 + 30r + 9
11. Describe and correct the error made in the factoring expression below

3x2 – 16x – 12

3x2 + 4x – 20x – 12

x(3x + 4) – 4(5x + 3)

(x – 4)(3x + 4)(5x + 3)