

Algebra 1**Chapter 8 Part 2 Review**

Target 8-4: I can factor polynomials using the GCF (distributive property).

Target 8-5: I can factor trinomials and binomials with a leading coefficient of one using any method.

Target 8-6: I can factor trinomials and binomials with a leading coefficient greater than one using any method

(All targets are mixed together below)

Factor the following polynomials completely! Be sure to use the best method. Box your answer.

1. $8m - 6$

2. $h^2 + 9h + 18$

3. $2b^2 + 16 - 18b$

4. $6a^2 - 17a + 12$

5. $x^2 - 256$

6. $-6mp + 4m + 18p - 12$

7. $g^2 + 3g - 10$

8. $16d^2 - 4$

Name/Period: _____

9. $x + x^2y + x^3y^2$

10. $-12 - 9m + 3m^2$

11. $f^3 + 2f^2 - 64f - 128$

12. $24x^2 + 108x - 60$

Target 8-7: I can use factoring and the zero product property to solve quadratic equations.

Solve the following quadratics by factoring. Make sure to box your answers!

1. $(4y + 8)(3y - 4) = 0$

2. $8q^2 - 10q + 3 = 0$

3. $2z^2 + 20z = 0$

4. $6b^2 - 5b = 4$

Name/Period: _____

5. $9x^2 = 27x$

6. $10r^2 - 21r = -4r + 6$

7. $10g^2 + 10 = 29g$

8. $15n^2 - n = 2$

9. **Construction:** A construction company is planning to pour concrete for driveway. The length of the driveway is 16 feet longer than its width.
- Draw a picture
 - Write an expression for the area of the driveway.
 - Find the dimensions of the driveway if it has an area of 260 square feet.

Name/Period: _____

10. **Picture Frame:** A picture measures 8cm by 12cm. The entire frame as an area of 140 cm^2 . What is the width of the frame.

