

NAME _____

DATE _____

PER. _____

FACTORING POLYNOMIALS – Day 2

Factor each polynomial. Look for GCF first!

1. $x^2 + 8x + 12 =$

2. Factor completely: $2x^2 + 20x + 32$

3. $x^2 + 4x - 12 =$

4. How is $x^2 - 11x + 24$ expressed as the product of two binomials?

5. $x^2 - 64 =$

6. Find the expression that represents $4x^2 + 20x - 24$ in factored form.

7. $x^2 - 3x - 40 =$

8. Which expression is a factor of $x^2 + 6x - 16$?

A. $x - 8$

B. $x - 2$

C. $x - 4$

D. $x - 3$

9. $3x^2 + 21x + 18 =$

10. Factor the trinomial: $3x^2 - 18x - 21$

11. $2x^2 + 6x - 8 =$

12. How is $x^2 + 12x + 27$ expressed in factored form?

13. $4x^2 + 8x + 4 =$

14. Factor the following binomial: $2x^2 - 162$

15. A rectangular prism has the volume shown below. What three expressions can be used to represent the dimensions of the prism?

$$V = 4x^3 + 24x^2 + 20x$$

