

Name _____ Period _____ Date _____

Practice Factoring Assessment #2 Questions

Factor Trinomials and Solve by Factoring

Factor each trinomial, if possible. If the trinomial cannot be factored using integers, write *prime*.

1. $x^2 - 14x - 72$

2. $n^2 - 17n + 52$

3. $x^2 - x - 12$

4. $x^2 + 2x - 8$

5. $-4 - 3m + m^2$

6. $3y^2 + 33y + 54$

Solve each equation by factoring.

7. $b^2 + 14b - 32 = 0$

8. $x^2 + 45 = 18x$

9. $x^2 - 6x + 8 = 0$

10. $n^2 - 36 = 5n$

11. How do you write “a number” in algebra?

12. How do you write “two consecutive numbers” in algebra?

13. How do you write “two consecutive **even** numbers” in algebra?

14. How do you write “two consecutive **odd** numbers” in algebra?

15. How do you write “the **sum** of two consecutive even numbers” in algebra?

16. Write “the **sum** of two consecutive numbers = 11” in algebra, then solve for x . What are the two numbers?

17. Write “the **sum** of two consecutive even numbers = 102” in algebra, then solve for x . What are the two numbers?

18. Write “the **product** of of two consecutive numbers” in algebra.

19. Write “the **product** of two consecutive numbers = 72” in algebra, then solve for x . What are the two numbers?

20. Write “the **product** of two consecutive even numbers = 48” in algebra, then solve for x . What are the two numbers?