

Name: _____

**Unit 3: Factors
Review Worksheet**

I. Divisibility Rules – Determine if the following numbers are divisible by 2, 3, 4, 5, 6, 8, 9, and 10. Write the number it is divisible by on the line provided.

1. 1440 _____

2. 1080 _____

3. 4862 _____

II. Factors – Write the factors of the following numbers.

4. 56 _____

5. 64 _____

6. 100 _____

III. Prime and Composite Numbers – Determine whether each number is prime or composite.

7. 8 _____

8. 12 _____

9. 31 _____

10. 2 _____

11. 7 _____

12. 9 _____

IV. Prime Factorization - Write the prime factorization of each number.

13. 44 _____

14. 86 _____

15. 99 _____

V. GCF (Greatest Common Factor) - Find the GCF for each set of numbers.

16. 27 and 54 GCF: _____

17. 32, 56, and 96 GCF: _____

18. 14, 42, and 70 GCF: _____

VI. Word Problems – Answer each word problem.

19. Jerry is making treat bags for a party. He has 54 candy bars, 63 balloons, and 90 small toys. He wants each bag to have the same number of candy bars, balloons, and small toys without any left over. What is the greatest number of bags he can make? How many candy bars will be in each bag? How many balloons will be in each bag? How many small toys will be in each bag?

Total Bags: _____

Number of Candy Bars in each Bag: _____

Number of Balloons in each Bag: _____

Number of Small Toys in each Bag: _____

20. Susie is making gift stocking for children at a hospital. She wants to put in equal numbers of candy canes, small toys, and chocolates. She has 32 candy canes, 72 small toys, and 96 chocolates. How many stocking can she fill if she doesn't want anything left over? How many candy canes will be in each stocking? How many small toys will be in each stocking? How many chocolates will be in each stocking?

Total Stockings: _____

Number of Candy Canes in each Stocking: _____

Number of Small Toys in each Stocking: _____

Number of Chocolates in each Stocking: _____

VII. Equivalent Expressions using GCF and the Distributive Property - Factor the sum of terms as a product of the GCF and a sum.

21. $26 + 39$ _____

22. $12n + 18$ _____

23. $72x + 84x$ _____

VIII. Numerical and Algebraic Equivalent Expressions - Write 4 equivalent expressions for each expression.

24. $32 + 40$ _____

25. $28y + 49$ _____

