

- Review your divisibility rules for 2, 3, 4, 5, 6, 9, and 10.
- Be able to determine whether a number is prime or composite (remember that 0 and 1 are neither).
- Be able to list factors for numbers.
- Review factor trees and the ladder method for prime factorization.
- Be able to find the GCF and LCM of a set of 2 or more numbers.

***Divisibility**

Tell whether each number is divisible by 2, 3, 4, 5, 6, 9, and 10.

1. 836

2, 4,

2. 670

2, 5, 10

3. 312

2, 3, 4, 6,

Tell whether each number is prime or composite.

4. 36

C

5. 111

~~C~~ C

6. 53

*P****Factors and Prime Factorization**

List all the factors of each number.

7. 36

1, 2, 3, 4, 6, 9, 12, 18, 36

8. 72

8, 9
1, 2, 3, 4, 6, 12, 18, 24, 36, 72

9. 53

1, 53

Write the prime factorization of each number.

10. 675

 $3^3 \times 5^2$

11. 90

 $2 \times 3^2 \times 5$

12. 112

 $2^4 \times 7$ ***Greatest Common Factor - Find the GCF of each set of numbers**

13. 49 and 70

7

14. 72 and 60

12

15. 18, 24, and 48

*6****Least Common Multiple - Find the LCM of each set of numbers**

16. 18 and 24

72

17. 15 and 20

60

18. 4, 12, 15

*60**15: 15, 30, 45, 60*