

Name: _____

Number Theory Review

Classify each number as prime or composite. Example: 2 = prime

1. 32 = _____ 2. 47 = _____ 3. 55 = _____

If the first number is divisible by the second number write yes.

4. 345 by 3 _____ 5. 734 by 2 _____ 6. 750 by 5 _____

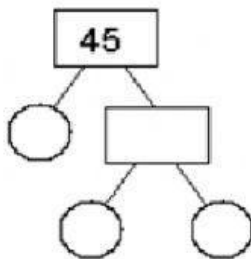
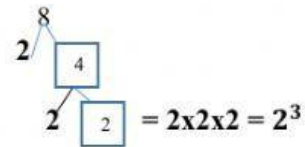
List all of the factors of each number. Example 33 = 1, 3, 11, 33

7. 32 = _____ 8. 16 = _____ 9. 24 = _____

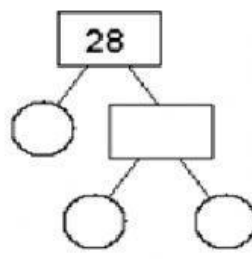
List 5 multiples of the following. (4: 4, 8, 12, 16, 20)

10. 8: _____ [11] 3: _____

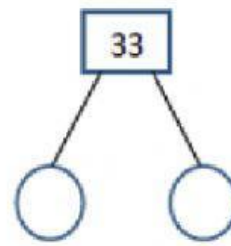
Find the prime factorization of each number. Use a factor tree. Example



_____ X _____ X _____



_____ X _____ X _____



$33 = ___ \times ___$

Find the greatest common factor of each set of numbers. **28** = 1, 2, 4, 7, 14, 28 and **44** = 1, 2, 4, 11, 22, 44 = GCF = 4

13. 4 = _____ 14. 6 _____ 15. 3 _____

14 _____ 28 _____ 10 _____ 39 _____

GCF = _____ GCF = _____ GCF = _____

Find the least common multiple. **3** = 3, 6, 9, 12, 15, 18 and **5** = 5, 10, 15, 20 = LCM = 15

16. 4 _____ 17. 5 _____ 18. 4 _____

8 _____ 10 _____ 12 _____

LCM = _____ LCM = _____ LCM = _____