

Assignment Due: \_\_\_\_\_  
Primes, Prime Factorization, Factors, and Multiples

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Name \_\_\_\_\_ Section/Period \_\_\_\_\_  
Assigned: \_\_\_\_\_

1. List the first 25 prime numbers.

Find the prime factorization of each of the following. None of them are prime numbers.

2. 64

3. 48

4. 90

5. 100

6. 144

7. 7,776

8. 343

List the factors for each of the following.

9. 135

10. 144

11. 76

12. 91

What is the greatest common factor of each of the following sets of numbers?

13. 135 and 144

14. 121 and 99

15. 360 and 37

16. 36, 58, and 20

For the following, you are given two numbers and either the GCF or LCM of the two numbers. Find what is not given (either the GCF or LCM).

17. 63 and 22 with a least common multiple of 1,386.

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18. 45 and 63 with a greatest common factor of 9.

19. 64 and 32 with a greatest common factor of 32.

20. 35 and 62 with a least common multiple of 2,170

Find the least common multiple of each of the following pairs of numbers.

21. 17 and 68

22. 8 and 10

23. 6, and 18

24. 7 and 13