

Determine if the numbers are prime or composite.	
77	59
93	26
Find the prime factorization of each number and then rewrite in exponential form.	
98	240
144	800
Find the GCF of	
20 and 42	76 and 84
28 and 50	30 and 99

Find the LCM of

12 and 20

18 and 40

9 and 24

50 and 75

Matthew goes hiking every 12 days and swimming every 6 days. He did both kinds of exercise today. How many days from now will he go both hiking and swimming again? \_\_\_\_\_

Aylin is making a scrapbook using 18 photos and 20 newspaper clippings. She wants all the pages to be set up in the same way, with the same combination of photos and newspaper clippings on every page. She also wants to make sure that no items are left over. What is the greatest number of scrapbook pages that Aylin can create?

Z100 gave away a Z \$100 bill for every 100th caller. Every 30th caller received free concert tickets. How many callers must get through before one of them receives *both* a coupon and a concert ticket?

4. A quality control inspector in an egg factory checks every 36<sup>th</sup> egg for cracks and every 42<sup>nd</sup> egg for weight.

What is the number of the first egg each day that the inspector checks for both qualities? (Hint: think this will be the least number....)

5. The manager at Frank's Snack Shack buys hot dogs in packages of 30. He buys hot dog buns in packages of 24. Unfortunately, he cannot buy part of a package.

What is the least number of packages of each product he can buy to have an equal number of hot dogs and hot dog buns? (Careful: What is the question asking for??)

