## FACTORS, DIVISORS, PRIMES, ETC...

1. Determine whether each number is prime or composite:
a) 9
b) 7
c) 23
d) 24
2. Write all the factors of the following numbers:
a) 32
b) 48
c) 54
d) 90
3. Write the following numbers as a product of their prime factors (Hint: use a factor tree)
a) 300
b) 936
c) 2450
d) 7986
4. A perfect number is one that is the sum of all its factors except itself. For example, 6 is perfect since $1,2,3$ and 6 are all its factors and $1+2+3=6$.
Find the next two perfect numbers. (Hint: one is just less than 30 and the other is between 490 and 500.)
5. Write all the possible whole number dimensions for a rectangle having an area of $36 \mathrm{~m}^{2}$.
6. Find the GCF for the following:
a) 28,49
b) 32,48
c) 24,36
d) 18,24
e) 25,50
f) $12,18,24$
7. Find the LCM for the following:
a) 18,27
b) 10,25
c) 16,24
d) 32,40
е) 28,36
f) $24,36,12$

