Get an integer from the user:

```
x = int(input("enter a number please: "))
```

Compute the greatest common divisor:

```
def gcd(a, b):
    while b:
        a, b = b, a % b
    return a
```

Compute the least common multiple:

```
def lcm(a, b):
    return a * b // gcd(a, b)
```

Primality test:

```
def isprime(x):
    for i in range(2, x-1):
        if x % i == 0:
            return False
    return True
```

Problems to solve:
1. Print all the prime numbers.
2. Print the greatest common divisor of three or more numbers.
3. Ask the user for a number and determine if it's a perfect square or not.
4. Ask the user for two numbers that make a fraction. Print the reduced fraction.
5. Ask the user for two numbers that make an improper fraction. Print it as a mixed number.
6. Ask the user for a number. Print its prime factorization.
7. Ask the user for a number of print the area of a circle with that radius.
8. Ask the user for a number and print the volume of a sphere with that radius.