CSCI 1470 CS 1
Spring 2026
Suggested Solution to Mid-Term Examination

[Q1]

[1]	A	[2]	D	[3]	B				
[4]	D	[5]	C	[6]	C	[7]	B	[8]	B
[9]	D	[10]	C	[11]	A	[12]	C	[13]	B
[14]	C	[15]	A	[16]	B				

[Q2]

[a]	F	[b]	T	[c]	T	[d]	T	[e]	T		
[f]	T	[g]	F	[h]	F	[i]	T	[j]	F	[k]	F

[Q3]

[a]

x: 5
y: 12

[b]   For example:

```
if score >= 90:
    grade = "A"
elif score >= 80:
    grade = "B"
elif score >= 70:
    grade = "C"
elif score >= 60:
    grade = "D"
else:
    grade = "F"
```

[Q4]

[a]   7
[b]   False
[c]   8
[d]   ['w', 'o', 'r', 'l', 'd']
[e]   [0, 1, 2, 3, 4, 5]
[f]   True
[g]   True
[h]   WORLD
[i]   3
[j]   False

[Q5]

[1]   Hexadecimal: CC
       Binary: 11001100

[2]   Decimal: 445
       Binary: 110111101

[Q6] [1]

```python
for i in list_1:
    print(f"{i}**3 => {i**3}")
```

[2]

```python
dict_2 = {}
for i in range(0,len(list_2),2):
    dict_2[list_2[i]] = list_2[i+1]
print(dict_2)
```

[3]

```python
from sympy import isprime
num_list = [2,5,8,13,21,23]
for num in num_list:
    print(f"{num}: ", end='')
    if isprime(num):
        print("prime")
    else:
        print("not a prime number")
```