Programming Logic – Beginning

Additional Processing Examples (quiz review)

1. Declare a variable to hold the number of Legos in a bucket.
2. Assign the value 1,065 to that variable
3. Declare a variable to hold your student ID
4. Assign the value 12345678 to that variable
5. Declare a variable to hold the start of Spring Break
6. Assign March 17, 2014 to that variable
7. Write a C# statement to determine the end of Spring Break (7 days later)
8. Declare a variable to hold the weight of the bucket of Legos.
9. Assign value 5¼ to that variable.
10. Write a C# statement to increase the weight by $1\frac{1}{3}$

```
int intVar1 = 10;
int intVar2 = 5;
int intVar3 = 3;
double dblResult;
int intResult;

intResult = intVar1 % intVar2;                      intResult =
intResult = intVar2 % intVar1;                      intResult =
intResult = intVar2 / intVar1;                      intResult =
dblResult = intVar2 / intVar1;                      dblResult =
dblResult = (double) intVar2 / intVar1;             dblResult =

intResult = intVar1 + intVar2 / intVar3;            intResult =
dblResult = (double)intVar1 / intVar2 / intVar2;    dblResult =
```

```
double a, b, c, d;                          //Not recommended but legal

a = 0;
b = 15;
c = 5;

a = a + 10;
a += 10;

d = a * b / c;
b = Math.Pow(a, 2);
c = c % b;
```

Final values:

a =
b =
c =
d =

The surface area of a cube is defined as: area = $6a^2$ (Where *a* is the length of each side)
Write the equivalent C# formula

The surface area of a rectangular box is defined as: area = 2lh + 2hw + 2lw
Where h=height l=length w=width
Write the equivalent C# formula