Methods Assignment
Problem Sheet

PART A

1. Design a method to calculate the volume of a box when the length, width and height of the box are passed to the function.

2. Design a method that will determine whether a number passed to it is even or odd. Eg. EvenOdd(15) should return the word ***'odd'*** .

3. Design a method that will determine the remainder of two numbers. Eg. Remainder(12,7) should return the number ***5***. Note: The first number passed is always larger than the second.

4. Design a method that will determine the cube root of a number passed to it. Hint: C# has the a square root method but does not have a built in cube root method. You will have to remember some math. Does fractional exponents ring a bell?

5. Design a function to determine the cost of mailing a package. Your function should expect the weight of the package to be passed as a parameter. Using this weight will permit the function to return a value that will reflect the cost of the mailing. You must use the following to determine the cost.

Packages weighing less than 8 grams will cost	.32
Packages weighing more than 8 grams and less than or equal to 12 will cost	.47
Packages weighing more than 12 grams and less than or equal to 16 will cost	.62
Packages weighing more than 16 grams and less than or equal to 20 will cost	.77
Packages weighing more than 20 grams and less than or equal to 24 will cost	.92
Packages weighing more than 24 -> Display message "***too heavy***" and cost	0

PART B

Create a program based on the following flowchart