Question 1:Using sequential operations, write an algorithm that gets four numbers corresponding to scores received on three semester tests and a final examination. Your algorithm should compute and display the average of all four tests, weighing the final exam twice as heavily as the regular test.

Algorithm:

Step 1: Get the values for E1, E2, E3, F

Step 2: Set the value average to(E1+E2+E3+F)/2

Step 3: Print the value of average

Question 2: Write an algorithm that gets the price for item A plus the quantity purchased. The algorithm prints the total cost, including a 6% sales tax.

Algorithm:

Step 1: Get values for P and Q

Step 2: Set the value of subtotal to P X Q

Step 3: Set the value of totalcost to subtotal X 1.06

Step 4: Print the value of totalcost

Question 3: Write an if/else/then primitive to do each of the following operations:

A: Compute and display the value x/y if the value of y is not 0. If y does have the value 0, then display the message “Unable to perform the division.”

B: Compute the area and circumference of a circle, given the radius r if the radius is greater than or equal to 0. Otherwise, it should compute only the circumference.

Algorithm:

A: if y is not equal to 0

Print the value of x/y

Else

Print the message “Unable to perform the division”

B: