```matlab
function Problem394(m)
sum = 0;

    for i = 1:m
        if i < 400
            cost(i) = i * .15;
        elseif i == 400
            cost(i) = i * .10;
        elseif i < 500
            cost(i) = i * .30;
        else
            cost(i) = 0;
        end

    sum = sum + cost(i);

    end

sum
average_cost = sum/m
end

% As M becomes larger both the sum and the average cost increases
% accordingly.
```