

ME 1020 Engineering Programming with MATLAB

Problem 7.1:

1. The following list gives the measured gas mileage in miles per gallon for 22 cars of the same model. Plot the absolute frequency histogram and the relative frequency histogram.

23	25	26	25	27	25	24	22	23	25	26
26	24	24	22	25	26	24	24	24	27	23

Go to the following webpage to download the data for this problem:

www.cs.wright.edu/~sthomas/prob7_1.xlsx

```
% Problem 7.1
clear
clc
disp('Problem 7.1: Scott Thomas')

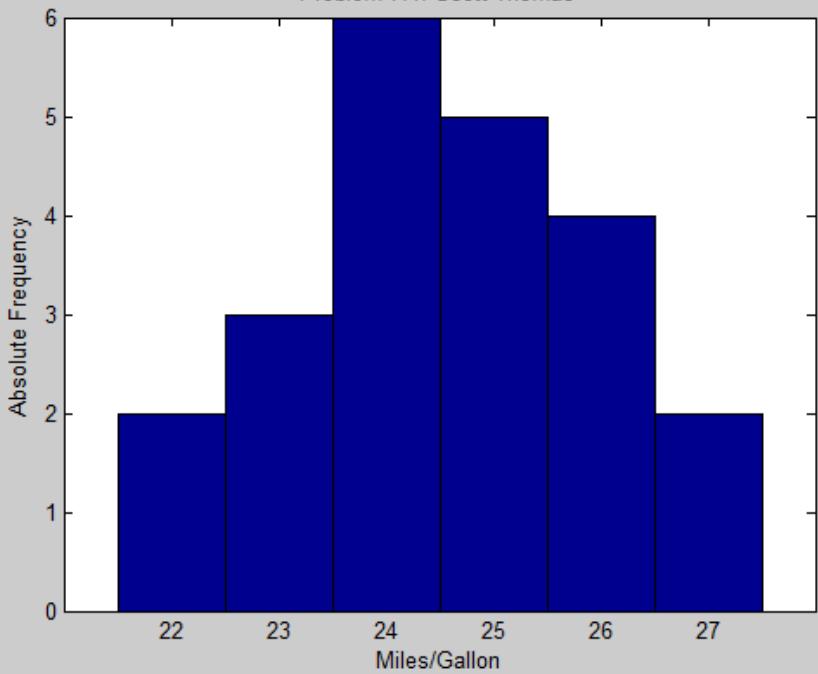
mpg = xlsread('prob7_1');
x = 22:27;
tests = length(mpg);
relfreq = [2 3 6 5 4 2]/tests;

%Absolute Frequency Plot:
%hist(mpg,x)
%xlabel('Miles/Gallon'), ylabel('Absolute Frequency')
%title('Problem 7.1: Scott Thomas')

%Relative Frequency Plot:
bar(x,relfreq)
xlabel('Miles/Gallon'), ylabel('Relative Frequency')
title('Problem 7.1: Scott Thomas')
```

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