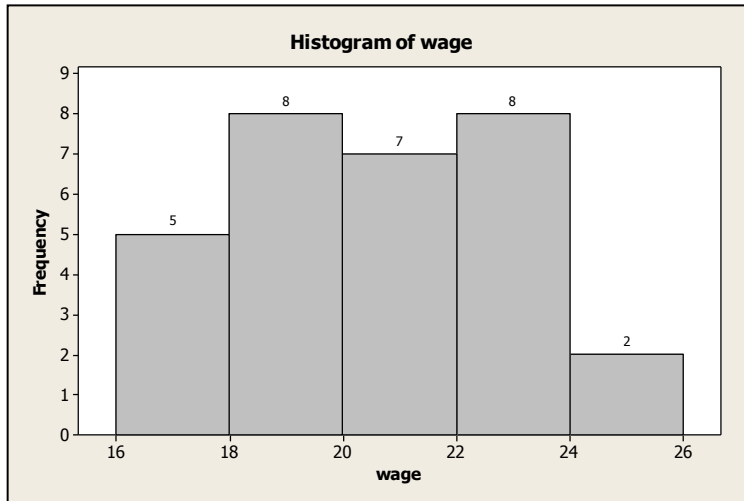## Lesson 2 At Home Problem Solutions

Problem # 2.3
The number of employees in each category is shown above the corresponding bar.
For example, there are 7 data values within the 20 – under 22 category.

Problem # 2.4
20, 20,22, 22, 27,28 ,30,31,31,33,35,39,41,43,44,44,54,57

Problem # 2.6
$\bar{x} = \sum x/n = 942/8 = 117.75$ Median = (113 + 122)/2 = 117.5; There is no mode.

Problem # 2.10
An ad claim such as "Get up to 70% more miles per gallon by using product x." Most cars tested may have obtained little or no increase in mpg.

Problem # 2.14

$\bar{x} = 12.1, m = 12, mode = 12$
$s^2 = 18.767, s = 4.332$
3,18, Q1= 10, Q2 = 12, Q3 = 15
IQR = 5, Upper Limit = 15+7.5 = 22.5 , Lower Limit = 10-7.5 = 2.5
Whiskers 3 and 18
No Outliers