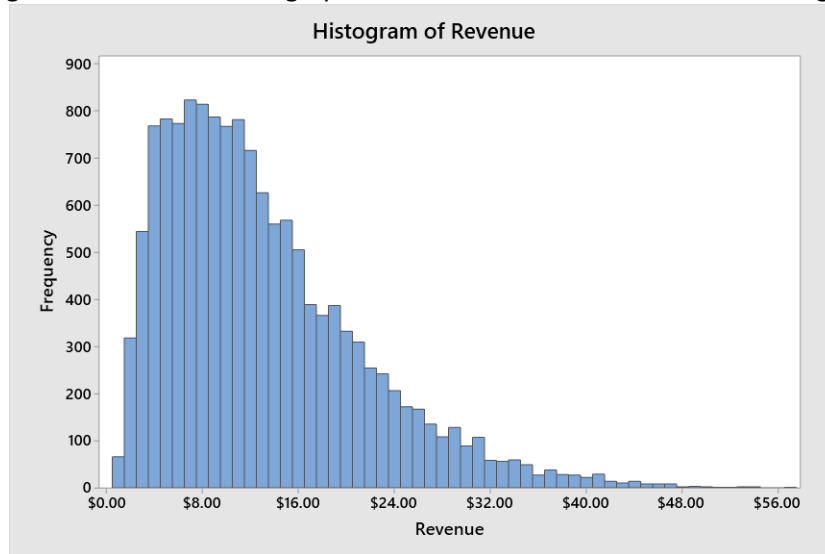**Instructions**: Show all work. Answers without work can only be graded all or nothing. Partial credit is available only when work is shown. Answer all parts of each problem. Provide explanations as indicated. You may use Minitab or any other statistical software (such as a calculator or Excel) to complete any required statistical calculations or graphs.

1. The histogram shown below is a graph of Revenue from individual sales for a given year.

a. Describe the shape of the histogram.

    Right-skewed

b. Which of the following statements are true? (only one is true; since this is a histogram, consider the mode to be the modal class)
    i. $mean \approx median \approx mode$
    ii. $mean \approx median$, but there is no mode
    iii. $mean < median < mode$
    iv. $mean > median > mode$

c. Estimate the range from the graph

    $56

d. Each class has the width of approximately $1. What is the approximate value of the modal class?

    $7

2.   Calculate a complete set of descriptive statistics for the data below. Include at least: the mean, median, standard deviation, maximum, minimum and IQR.

Male Salary	81600	76300	60900	60200	59000	68600	51900	67600	78900

Statistics

Variable	Total Count	N	N*	Mean	TrMean	StDev	Variance	Minimum	Q1	Median	Q3
Male Salary	9	9	0	67222	*	10119	102399444	51900	59600	67600	77600

Variable	Maximum	Range	IQR
Male Salary	81600	29700	18000