Name\_\_­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour\_\_\_\_\_\_\_\_\_\_

QUIZ-**BOX-AND-WHISKER PLOTS, HISTOGRAMS, AND TWO-STEP EQUATIONS**

Evaluate. Be sure to **SHOW ALL OF YOUR WORK** to receive credit! : )

1. ¾x – 18 = 54 2. 7/8x + 10 = 48 3. 6/7x = 24

Create a box-and-whisker plot using the following information. AFTER you have created the box-and-whisker plot, identify the first, second and third quartiles as well as the upper and lower extremes.

Q1\_\_\_\_\_\_\_\_ Q2\_\_\_\_\_\_\_\_\_ Q3\_\_\_\_\_\_\_\_\_ UE\_\_\_\_\_\_\_\_\_\_ LE\_\_\_\_\_\_\_\_\_

Test Scores: 78, 64, 85, 92, 98, 92, 87, 64, 52, 58, 68

 50 55 60 65 70 75 80 85 90 95 100

How much of the data is in each box? \_\_\_\_\_\_\_\_\_\_\_\_ How much data is found in each whisker? \_\_\_\_\_\_\_\_\_\_\_

What percent of these test scores was ABOVE 78? \_\_\_\_\_\_\_\_\_\_\_ What percent were below 64?\_\_\_\_\_\_\_\_\_\_\_\_

What percent of the test scores were greater than 64?\_\_\_\_\_\_\_\_\_\_ What percent were below 92? \_\_\_\_\_\_\_\_\_\_

Complete the frequency table below. Then use the table to create a histogram.

|  |  |  |
| --- | --- | --- |
| Intervals | Tallies | Frequency |
| 101-150 | IIII III |  |
| 151-200 | IIIII IIIII |  |
| 201-250 | IIII I |  |
| 251-300 | IIII |  |
| 301-350 | IIIII II |  |

How many people were surveyed? \_\_\_\_\_\_\_\_\_\_\_ How did you find this information?

How is histogram similar to a bar graph?

How is a histogram different than a bar graph?

Which graph is used to display “numerical” data? histogram bar graph

What is the first step in creating a histogram?