1. State whether the following distributions are skewed left, skewed right, approximately uniform, or approximately normal. *Consider how the data would look in a histogram.*

a) 3, 4, 4, 5, 7, 9, 9, 10, 12, 29   b) 14, 21, 25, 30, 36, 38, 44, 49, 53

2. In Professor Matlock's Sociology class, the three papers are each worth 15% of the final grade, the midterm is worth 20%, and the final is worth 35%. Showing all work in a table, calculate Jordan's grade if she scored 85, 91, and 98 on her papers, 90 on her midterm, and 95 on her final.

f	___	___
.15	_____	_____
_____	91	_____
_____	_____	14.7
_____	_____	_____
_____	_____	_____
$\Sigma f = 1.00$	$\Sigma fx = $ _____	

3. In a survey at Wasserman High School, 21 students said it takes them under 10 minutes to get to school, 16 students said it takes them 10 to 20 minutes to get to school, 7 students said it takes them 20 to 30 minutes to get to school, and 2 students said it takes them 30 to 60 minutes to get to school. Showing all work in a table, calculate an estimate of the standard deviation of the time it takes all students at the school to get to school. Label all columns and values with appropriate symbols.

f	___	___	$x - \bar{x}$	_____	_____
21	5	_____	_____	_____	_____
_____	_____	240	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	45	_____	_____	_____	_____
$\Sigma f = $ _____		___ = _____		_____ = _____	

$\bar{x} \approx$ _____ $\div\ 46 = $ _____ $s = \sqrt{\rule{2cm}{0pt} \div \rule{2cm}{0pt}} \approx$ _____

4. The following are the daily high temperatures in Scotts Valley in October 2023: 77°, 81°, 83°, 91°, 95°, 95°, 94°, 84°, 74°, 74°, 73°, 81°, 79°, 83°, 83°, 80°, 80°, 89°, 92°, 75°, 74°, 73°, 77°, 77°, 70°, 70°, 67°, 70°, 76°, 78°, 75°. Use a ruler to carefully make a neat, precise relative frequency histogram on the back.

☐ *It is a relative frequency histogram, not a frequency histogram.*   ☐ *The title is clear and sufficiently thorough.*

☐ *The heights of the bars are calculated and drawn accurately.*   ☐ *The title and axis labels are neatly written, and the numbers are easy to read.*

☐ *There is no space between the bars.*   ☐ *The scales are marked in logical increments.*

☐ *The ranges are all the same size.*   ☐ *All of the lines are drawn with a straightedge.*

☐ *There are between 5 and 15 bars with a height greater than zero.*   ☐ *The scales are measured with a ruler, not approximated.*

☐ *The x-axis label is correct and not plural.*   ☐ *The histogram is neat overall.*

☐ *The y-axis label is correct and not plural.*   ☐ *Everything is inked and/or in color.*